

The wind veers or backs immediately when the rain begins, and blows from the opposite direction, with increasing force and falling temperature. The wind from any point around the storm blows toward the center, conforming to the general law, consequently any direction of movement taken by the storm would be against the wind.

Rainfall does not result from this opposition of the storm movement and the wind direction. It is a fact that points on either side of the storm path are not favored with rain, not because there is no opposition between the wind and storm, but because the rain area is small and confined to the storm path.

Rain may continue to fall for a short time after the storm center has passed with the wind blowing with the storm movement, but these storms usually move suddenly or dissipate rapidly, giving place to a clearing sky, light, variable winds and rising temperature.

CLIMATE AND CROP SERVICES.

In 1874 the system of voluntary meteorological observers, that had for many years been maintained by the fostering care of the Smithsonian Institution, was officially turned over to the Chief Signal Officer of the Army, and in 1891 it became an integral part of the Weather Bureau of the Department of Agriculture. In 1881 a circular letter was sent to the governors of States recommending the organization of State weather services under the proper State official and the appropriation of money for the necessary expenses. Since that date several States have taken the necessary action, and in some other States the work has been provided for by special local interests, but the great burden of expense still devolves upon the Weather Bureau. In order to encourage this important work the successive Chiefs of the Weather Bureau have assigned experienced observers to assist in the respective States, and in many cases the work that is done by these officers and the voluntary observers far exceeds that done by the State officials. Moreover, an undesirable diversity has developed in the methods and style of publication and the distribution of the climatological data.

In order to remedy these difficulties and bring about a more equitable division of responsibilities the Chief of the Weather Bureau has issued "Instructions No. 18," dated January 30, 1896, from which we make the following extracts:

1. The State Weather Service Division of the Central Office will hereafter be known as "Climate and Crop Division," and the latter designation is hereby officially adopted.

It is desired to emphasize the distinction between "climate" and "weather." The term "climate" refers especially to seasonal meteorological conditions and to the variations between places in their average meteorological features. The work of voluntary observers and crop

correspondents has to do almost entirely with "climate" and not with "weather," which latter term refers more especially to the drift of changing air conditions from day to day. The weather-crop bulletins of the Weather Bureau will hereafter bear the following caption:

U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP BULLETIN OF THE WEATHER BUREAU.

The attention of directors of State Weather Services, supported wholly or in part by State funds and cooperating with the Weather Bureau, is respectfully called to the advisability of changing the titles of their services so as to omit the word "weather." Probably something like the following designation would be acceptable: "Ohio Climate and Crop Service."

Services wholly supported by funds from the Department of Agriculture will not, after March 1, 1896, be termed "State Weather Services." Such designation is misleading and manifestly improper, as the States have nothing to do with their maintenance.

The following caption for letters, crop bulletins, and monthly meteorological tables will be adopted, and will clearly indicate the status of these services:

U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE OF THE WEATHER BUREAU.

ILLINOIS SECTION.

C. E. LINNEY, Section Director.

CHICAGO, ILL.

The necessary change may go into effect at once where possible, but it must not be delayed longer than March 1st, next.

Where the meteorological tables are printed in journals supported by private means care will be exercised not to designate such journals as "official."

All observers and other officials of the Weather Bureau are forbidden to approach State legislators or committees of State legislatures for the purpose of inducing them to appropriate public funds to be used in State Weather Service work, or for other purposes. They may appear before the proper committees for the purpose of explaining the need of such appropriation, if invited by the proper State officials, but in no way will they solicit legislative action in the interest of their work. The work of the Climate and Crop Service of the Weather Bureau should be extended along all proper lines, so as to meet the needs of the people as fully as the resources of the national service will permit.

If legislatures desire to appropriate funds for the purpose of co-operating with the national service in still further extending its benefits to their States, that matter must be left to the determination of such legislatures, without solicitation on the part of any Weather Bureau employee.

It is hoped soon to perfect printing appliances so that each Section of the Climate and Crop Service of the Weather Bureau may be able to print its own daily weather maps, crop bulletins, and monthly publications, and that the long-sought object of issuing uniform publications may at last be realized. If this is accomplished, it is intended to set apart proper space for text or editorial notes, so that the individuality of the official at the head of the Section may be fully recognized.

METEOROLOGICAL TABLES.

By A. J. HENRY, Chief of Division of Records and Meteorological Data.

Table I gives, for about 130 Weather Bureau stations making two observations daily and for about 20 others making only the 8 p. m. observation, the data ordinarily needed for climatological studies, viz, the monthly mean pressure, the monthly means and extremes of temperature, the average conditions as to moisture, cloudiness, movement of the wind, and the departures from normals in the case of pressure, temperature, and precipitation.

Table II gives, for about 2,400 stations occupied by voluntary observers, the extreme maximum and minimum temperatures, the mean temperature deduced from the average of all the daily maxima and minima, or other readings, as indicated by the numeral following the name of the station; the total monthly precipitation, and the total depth in inches of any snow that may have fallen. When the spaces in the snow column are left blank it indicates that no snow has fallen, but when it is possible that there may have been

snow of which no record has been made, that fact is indicated by leaders, thus (. . .).

Table III gives, for about 30 Canadian stations, the mean pressure, mean temperature, total precipitation, prevailing wind, and the respective departures from normal values. Reports from Newfoundland and Bermuda are included in this table for convenience of tabulation.

Table IV gives, for 29 stations, the mean hourly temperatures deduced from thermographs of the pattern described and figured in the Report of the Chief of the Weather Bureau, 1891-'92, p. 29.

Table V gives, for 28 stations, the mean hourly pressures as automatically registered by Richard barographs, except for Washington, D. C., where Foreman's barograph is in use. Both instruments are described in the Report of the Chief of the Weather Bureau, 1891-'92, pp. 26 and 30.

Table VI gives, for 136 stations, the arithmetical means of the hourly movements of the wind ending with the respective

hours, as registered automatically by the Robinson anemometer, in conjunction with an electrical recording mechanism, described and illustrated in the Report of the Chief of the Weather Bureau, 1891-'92, p. 19.

Table VII gives the danger points, the highest, lowest, and mean stages of water in the rivers at cities and towns on the principal rivers; also the distance of the station from the river mouth along the river channel.

Table VIII gives the maximum, minimum, and mean readings of the wet-bulb thermometer for 135 stations, as determined by observations of the whirled psychrometer at 8 a. m. and 8 p. m., daily.

The difference between mean local time and seventy-fifth meridian time is also given in the table.

Table IX gives, for all stations that make observations at 8 a. m. and 8 p. m., the four component directions and the resultant directions based on these two observations only and without considering the velocity of the wind. The total movement for the whole month, as read from the dial of the Robinson anemometer, is given for each station in Table I. By adding the four components for the stations comprised in any geographical division one may obtain the average resultant direction for that division.

Table X gives the total number of stations in each State from which meteorological reports of any kind have been received, and the number of such stations reporting thunderstorms (T) and auroras (A) on each day of the current month.

Table XI gives, for 38 stations, the percentages of hourly sunshine as derived from the automatic records made by two essentially different types of instruments, designated, respectively, the thermometric recorder and the photographic recorder. The kind of instrument used at each station is indicated in the table by the letter T or P in the column following the name of the station.

Table XII gives the records of hourly precipitation as reported by stations equipped with automatic gauges, of which 37 are known as float gauges and 7 as weighing rain and snow gauges.

Table XIII gives the record of excessive precipitation at all stations from which reports are received.

Table XIV gives a record of the heaviest rainfalls for periods of five and ten minutes and one hour, as reported by regular stations of the Weather Bureau furnished with self-registering rain gauges.

Additional information concerning the tables will be found in the January, 1895, REVIEW.

TABLE I.—Climatological data for Weather Bureau Stations, October, 1895.

Stations.	Elevation above sea-level, feet.	Length of record, years.	Pressure in inches.	Temperature of the air, in degrees Fahrenheit.			Humidity and precipitation.	Wind.	Monthly temperature data since opening station.
	Mean pressure, 8 a.m. and 8 p.m. + 3.			Departure from normal.	Mean maximum.	Mean minimum.			
	Mean reduced.			Mean maximum.	Date.	Mean minimum.			
New England.									
Eastport.	76	23	29.89	29.98	.03	48.3	-2.5		
Portland, Me.	103	24	29.88	29.98	.06	44.7	-1.6	69	7 51
Northfield.	372	9	29.97	30.03	.01	41.2	-0.8	61	25 18
Boston.	125	23	29.89	30.08	.03	49.6	-1.3	70	13 52
Nantucket.	14	9	30.01	30.02	.06	51.1	-2.2	66	13 53
Woods Hole.	18				* 52	58		37	30 19
Vineyard Haven.	9				50.6	-3.0	68	3 54	16 18
Block Island.	27	16	30.01	30.04	.07	50.2	-1.1	69	* 5 59
Narragansett Pier.	14				* 47.9	65	8 56	34	26 18
New Haven.	107	23	29.91	30.08	.05	48.6	-3.7	69	3 58
Md. Atlan. States.									
Albany.	85	22	29.96	30.05	.03	52.6	-4.2		
New York.	314	24	29.71	30.05	.04	47.4	-3.9	68	3 56
Harrisburg.	377	8	29.67	30.09	.03	49.6	-2.2	73	19 60
Philadelphia.	117	25	29.95	30.06	.05	52.6	-1.0	70	3 61
New Brunswick.	9				* 49.3	73	3 62	34 28	
Baltimore.	143	25	29.92	30.07	.04	58.4	-4.6	74	3 63
Washington.	112	25	29.97	30.09	.03	52.1	-3.8	74	19 63
Cape Henry.	585	25	29.37	30.12	.01	58.5	-4.5	79	7 63
Lynchburg.	57	25	30.03	30.09	.02	58.6	-3.4	76	27 67
Norfolk.									
S. Atlantic States.									
Charlotte.	773	10	29.28	30.10	.01	62.4	-3.8	80	7 70
Hatteras.	111	15	30.07	30.08	.01	62.2	-3.1	78	28 66
Kittyhawk.	9	20	30.04	30.05	.01	60.2	-4.2	79	7 66
Raleigh.	388	9	29.69	30.18	.05	58.2	-3.4	80	7 67
Wilmington.	78	25	30.01	30.00	.00	62.0	-3.9	78	28 67
Charleston.	52	25	30.06	30.11	.01	66.0	-3.1	73	8 68
Columbia.					* 61.0	73	8 68	37 41	
Augusta.	180	24	29.90	30.10	.01	61.5	-4.2	88	8 70
Savannah.	98	25	29.99	30.10	.01	66.4	-1.3	91	7 70
Jacksonville.	43	25	30.00	30.06	.01	69.7	-1.8	92	7 70
Florida Peninsula.									
Jupiter.	28	8	29.95	29.98	.02	75.3	-1.9	85	9 81
Key West.	32	25	29.95	29.97	.03	78.6	-0.4	85	24 82
Tampa.	36	8	29.99	30.08	.00	73.6	-0.2	88	12 90
Titusville.	44	9	29.99	30.03	.01	73.1	-0.1	82	24 89
East Gulf States.									
Atlanta.	1,181	18	28.92	30.12	.02	65.1	-2.6	82	6 70
Pensacola.	56	16	30.01	30.07	.01	68.1	-1.6	85	28 77
Mobile.	57	25	30.04	30.10	.02	65.5	-3.2	86	5 76
Montgomery.	221	24	29.86	30.10	.00	63.4	-3.6	86	6 76
Meridian.	358	7	29.73	30.12	.02	60.0	-2.9	90	6 74
Vicksburg.	254	25	29.88	30.09	.03	62.6	-1.4	88	4 74
New Orleans.	54	25	30.03	30.09	.03	68.6	-2.1	87	5 74
Port Eads.	8				* 72.8	9	4 74	52 14	
West Gulf States.									
Shreveport.	249	25	29.88	30.12	.03	62.4	-3.3	82	* 7 77
Fort Smith.	481	14	29.62	30.14	.06	66.8	-5.9	80	6 70
Little Rock.	302	17	29.82	30.14	.04	58.6	-5.1	84	32 70
Corpus Christi.	20	9	30.06	30.08	.01	70.8	-2.2	86	31 70
Galveston.	42	25	30.03	30.10	.03	69.7	-2.8	88	6 75
Palestine.	510	14	29.58	30.12	.03	64.9	-1.9	87	17 75
San Antonio.	704	17	29.36	30.10	.03	68.8	-0.4	94	17 80
Ohio Val. & Tenn.									
Shreveport.	249	25	29.88	30.12	.03	52.7	-5.1	82	* 7 77
Charlottesville.	762	17	29.34	30.15	.02	57.2	-4.5	83	5 70
Knoxville.	980	25	29.09	30.15	.01	54.8	-4.9	80	4 70
Memphis.	399	25	29.72	30.15	.04	58.4	-4.6	81	32 69
Nashville.	545	25	29.55	30.14	.04	55.2	-4.9	84	6 68
Lexington.	989	11	29.05	30.12	.04	52.3	-4.2	79	6 68
Louisville.	523	25	29.56	30.14	.03	53.1	-6.2	79	6 68
Indianapolis.	706	25	29.29	30.18	.08	49.4	-4.8	78	6 68
Cincinnati.	628	25	29.45	30.13	.03	51.2	-5.8	74	* 61
Columbus.	824	16	29.22	30.11	.02	49.2	-5.8	73	3 59
Pittsburg.	824	25	29.18	30.10	.01	49.8	-5.5	73	28 59
Parkersburg.	638	8	29.43	30.13	.05	49.8	-5.7	75	22 61
Lower Lake Region.									
Buffalo.	690	25	29.27	30.02	.08	45.6	-5.7	87	27 72
Oswego.	335	25	29.69	30.01	.05	44.2	-6.1	71	27 71
Rochester.	523	25	29.48	30.03	.01	43.9	-4.5	71	27 71
Erie.	714	23	29.27	30.05	.01	45.8	-6.5	69	27 71
Sandusky.	740	25	29.26	30.07	.01	46.7	-6.0	68	20 64
Toledo.	629	19	29.38	30.07	.01	47.2	-6.1	70	25 65
Detroit.	674	25	29.24	30.08	.03	46.9	-6.1	69	3 65
Upper Lake Region.									
Alpena.	609	24	29.28	29.96	.07	41.6	-3.7	66	2 49
Grand Haven.	628	25	29.34	30.03	.00	45.2	-4.1	67	25 52
Marquette.	734	25	29.14	29.94	.06	40.7	-4.8	73	24 52
Port Huron.	639	25	29.34	30.03	.01	44.0	-5.8	69	21 52
Sault Ste. Marie.	642	6	29.23	29.94	.05	39.6	-4.1	87	26 52
Chicago.	824	10	29.18	30.08	.03	44.9	-4.9	74	5 53
Milwaukee.	673	25	29.32	30.06	.02	47.2	-5.2	71	30 53
Green Bay.	617	10	29.35	30.03	.02	42.4	-4.6	71	5 53
Duluth.	703	25	29.20	29.98	.02	42.0	-3.5	70	5 49
North Dakota.									
Moorhead.	925	15	29.00	30.04	.04	41.1	-1.4	81	17 54
St. Vincent.	794	16	29.11	29.99	.05	39.0	-1.3	79	12 51
Bismarck.	1,081	25	29.27	30.10	.10	48.0	-3.0	74	20 52
Williston.	1,875	17	28.94	30.07	.06	42.2	-1.2	80	13 56
Upper Miss. Valley.									
Minneapolis.	6								
St. Paul.	850	25	29.12	30.09	.05	44.9	-3.9	73	1 54
La Crosse.	720	23	29.29	30.07	.05	44.9	-4.6	74	20 55
Davenport.	612	24	29.42	30.08	.02	47.4	-4.9	74	* 57
Des Moines.	869	18	29.18	30.18	.07	48.2	-3.6	75	21 60

TABLE I.—Climatological data for Weather Bureau Stations, October, 1895—Continued.

Stations.	Elevation above sea level, feet.	Length of record, years.	Pressure, in inches.	Temperature of the air, in degrees Fahrenheit.								Humidity and precipitation.					Wind.					Monthly temperature data since opening station.															
				Mean pressure, 8 a.m. and 8 p.m. + 2.				Departure from normal.				Mean maximum and minimum, + 2.				Mean minimum. Greatest daily range.				Mean temperature of the dew-point.		Mean relative humidity, per cent.		Precipitation, in inches.		Departure from normal.		Total movement, miles.		Prevailing direction.		Miles per hour.	Date.	Cloudy days.	Average cloudiness, tenths.	Absolute maximum.	Year.
				Mean reduced.	Mean from normal.	Mean maximum.	Date.	Mean minimum.	Date.	Greatest daily range.	Mean dew-point.	Mean relative humidity.	Mean precipitation.	Days with 0.1 or more.	Total movement.	Prevailing direction.	Miles per hour.	Date.	Cloudy days.	Average cloudiness, tenths.	Absolute maximum.	Year.															
<i>Up. Miss. Val.—Con.</i>																																					
Dubuque	33	25	29.45	30.12	+ .05	47.8	-3.0	73	* 2	58	16	80	37	38	0.80	-2.8	4	.....	s.	nw.	26	w.	28	22	19	20	22	1891	15	1887						
Keokuk	618	25	29.74	30.13	+ .04	50.0	-4.0	61	29	66	20	80	34	42	0.37	-3.9	3	5,685	sw.	nw.	28	w.	29	22	19	20	22	1893	*	1884							
Cairo	359	25	29.54	30.12	+ .03	54.6	-5.1	73	28	66	30	80	34	34	0.59	-2.5	2	5,058	n.	nw.	29	w.	27	20	20	21	21	1873									
Springfield, Ill.	644	17	29.42	30.12	+ .03	49.5	-5.5	73	27	62	21	80	33	35	0.37	-3.2	2	5,956	nw.	34	w.	26	n.	27	20	20	21	20	1887								
Hannibal	594	25	29.54	30.12	+ .03	50.2	-4.7	73	18	62	30	80	34	33	0.36	-3	3	5,364	sw.	nw.	27	w.	27	20	20	21	20	1893									
St. Louis	571	25	29.64	30.16	+ .08	53.6	-4.4	73	20	63	30	80	34	35	0.23	-2.5	3	5,970	nw.	36	sw.	27	w.	20	20	21	20	21	1879								
<i>Missouri Valley.</i>																																					
Columbus	7	20.18	30.17	+ .10	53.4	-4.5	83	14	68	19	29	36	50	.....	0.25	-1.9	3	5,940	nw.	nw.	11	20	4	25	21	22	22	22	1898	19	1896					
Kansas City	963	8	29.18	30.17	+ .07	53.3	-3.3	80	18	64	26	28	33	34	0.12	-3.5	2	5,730	sw.	nw.	11	21	5	25	23	22	22	22	1893	26	1895						
Springfield, Mo.	1,324	10	28.78	30.15	+ .07	53.0	-5.6	73	16	63	28	29	33	36	0.78	-2.6	6	6,062	nw.	n.	11	20	6	25	27	28	28	28	1891	91	1887						
Topeka	1,228	25	28.94	30.15	+ .07	50.4	-2.4	71	22	62	17	29	39	38	0.44	-1.7	4	.....	s.	s.	21	4	6	25	25	22	22	22	1897							
Omaha	1,128	25	28.85	30.11	+ .09	47.4	-4.3	76	* 2	62	12	29	35	47	0.07	-9.5	2	5,582	nw.	n.	6	18	7	25	24	23	23	23	1893	15	1873						
Sioux City	1,165	7	28.85	30.11	+ .05	48.4	-4.1	71	13	63	17	29	34	49	0.10	-1.6	5	7,914	n.	n.	18	16	10	25	23	22	22	22	1892								
Pierre	1,470	21	28.50	30.08	+ .05	48.4	-1.1	71	* 17	63	4	29	34	49	0.22	-1.1	2	10,091	nw.	n.	18	16	12	3	8.6	9	9	9	1893	4	1893						
Huron	1,810	15	28.67	30.10	+ .07	45.1	-1.4	81	12	61	3	29	39	55	0.22	-0.3	3	.....	s.	s.	18	18	8	5	3.4	8	9	9	1891	9	1897					
<i>Northern Slope.</i>																																					
Havre	2,477	16	27.44	30.08	+ .06	45.0	-1.5	78	11	61	12	*	35	52	0.12	-0.4	3	6,182	nw.	n.	39	w.	25	21	5	3.5	6	89	-10	1881							
Miles City	2,374	18	27.57	30.09	+ .07	47.5	-1.4	79	12	62	29	33	47	30	0.89	-0.0	1	4,870	s.	s.	32	w.	26	19	8	4	3.7	8	85	-5	1887						
Helena	4,108	16	25.97	30.19	+ .13	47.3	-3.2	75	12	60	25	29	36	36	0.28	-0.6	3	4,507	sw.	sw.	35	n.	29	16	11	4	3.8	8	80	1889	8	1895					
Rapid City	3,260	10	26.69	30.09	+ .05	48.2	-0.6	85	17	61	10	29	35	50	0.02	-0.5	1	7,241	w.	w.	24	s.	18	14	14	4	4.3	9	9	9	1892						
Cheyenne	6,105	25	24.12	30.18	+ .11	41.6	-1.4	73	12	58	20	27	31	41	0.95	-0.2	4	6,985	nw.	n.	42	nw.	26	18	9	4	3.0	8	83	1892	-5	1878					
Lander	5,377	18	24.76	30.22	+ .14	43.2	-2.0	73	* 10	59	27	28	45	46	0.01	-0.1	5	1,606	sw.	sw.	24	n.	9	19	9	3	2.9	8	81	1889	10	*					
North Platte	2,836	22	27.18	30.17	+ .11	45.2	-2.9	80	12	64	14	29	33	56	0.09	-1.0	6	6,340	nw.	n.	36	n.	18	18	8	5	3.4	8	89	1879	9	1897					
<i>Middle Slope.</i>																																					
Denver	5,309	24	24.85	30.18	+ .12	50.7	-0.7	80	12	65	21	27	36	42	0.13	-0.8	4	5,020	s.	s.	36	ne.	26	17	11	3	3.6	9	90	1892	1	1873					
Pueblo	4,734	8	25.37	30.16	+ .11	50.8	-1.2	81	9	66	19	31	35	46	1.46	-1.1	3	4,738	nw.	sw.	38	ne.	30	18	9	4	3.2	8	87	1889	19	1895					
Concordia	1,410	11	28.65	30.16	+ .10	50.4	-2.4	83	14	65	20	28	39	41	0.70	-1.0	4	4,540	n.	n.	24	s.	9	29	1	4	3.7	9	92	1887							
Dodge City	2,504	22	27.51	30.14	+ .11	52.8	-3.0	83	21	66	26	29	35	40	1.09	-0.3	5	6,829	se.	se.	33	s.	9	23	4	5	3.0	9	94	1889	10	1878					
Wichita	1,351	8	28.70	30.14	+ .12	54.8	-2.9	83	21	67	29	35	43	41	0.81	-1.5	5	5,210	s.	s.	32	w.	27	21	4	6	3.1	9	91	1892	29	1895					
Oklahoma	1,239	23	28.85	30.18	+ .08	55.7	-1.9	83	34	20	44	37	41	67	2.93	0.9	9	5,065	s.	u.	32	w.	27	20	5	6	3.2	9	92	*	32	1893					
<i>Southern Slope.</i>																																					
Abilene	1,749	11	28.88	30.17	+ .09	60.6	-4.6	88	16	71	40	20	50	40	43	0.13	+ 1.1	7	5,127	n.	n.	35	n.	27	13	7	11	4.9	94	1893	34	1887					
Amarillo	3,691	26	29.37	30.16	+ .08	53.1	-0.7	80	21	64	31	31	42	38	36	0.94	+ 0.1	10	10,822	s.	s.	48	n.	27	17	5	9	4.1	84	1893	31	1893					
<i>Southern Plateau.</i>																																					
El Paso	3,767	18	26.25	30.06	+ .05	61.2	-2.5	88	5	74	41	24	49	38	39	0.88	-0.8	3	6,880	e.	e.	43	ne.	31	16	12	3	3.3	9	94	1879	28	1893				
Santa Fe	6,998	22	23.36	30.10	+ .06	49.6	-0.1	70	18	65	27	31	39	81	0.75	+ 0.7	6	4,081	se.	se.	31	ne.	18	22	6	3	3.2	8	86	1878	16	1880					
Phoenix	1,106	22	28.71	29.91	+ .01	71.9	-2.6	93	18	56	48	31	33	55	51	0.80	-0.2	4	3,193	s.	s.	26	se.	9	22	6	3	2.9	9	90	1887	*	1887				
Yuma	141	21	29.73	29.86	+ .05	75.5	+ 3.0	99	25	59	34	26	61	40	50	0.15	-0.2	3	3,803	ne.	ne.	21	w.	21	28	12	1	1.2	108	1887	41	1893					
Independence	3,884	26	26.06	29.98	+ .09	60.0	-2.0	98	* 25	75	37	29	46	39	30	0.33	-0.5	4	4,721	nw.	nw.	30	w.	3	20	5	4	2.5	99	*	1887						
<i>Middle Plateau.</i>																																					
Carson City	4,730	8	25.3																																		

TABLE II.—*Meteorological record of voluntary and other cooperating observers, October, 1895.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Alabama.</i>	○	○	○	Ins.	Ins.	<i>Arizona—Cont'd.</i>	○	○	○	Ins.	Ins.	<i>California—Cont'd.</i>	○	○	○	Ins.	Ins.
Alco.	93	38	63.4			Whipple Barracks†	85	25	55.1	0.24		Fall Brook*†	90	44	62.5	0.08	
Ashville† ¹ .	93	30	57.4	2.38		Wilcox†.	85	40	60.0	0.08		Folsom City b*†	88	44	64.0	0.09	
Bermuda†.	91	38	63.0	2.28		Willcox* ²						Fordyce Dam.				0.44	
Birmingham†.	90	37	61.2	2.75		<i>Arkansas.</i>						Fort Bragg† ³	79	37	55.1	0.00	
Brewton†.	93	36	61.3	2.00		Arkadelphia†.						Fort Ross.				0.00	
Carrolton† ¹ .	84	36	60.0	3.37		Arkansas City†.						Fort Tejon.				1.42	
Citronelle†.	86	50	66.0	2.89		Bee Branch†.	48	30	58.8	1.25		Georgetown†.	84	44	68.0	0.20	
Clairborne Landing.						Blanchard Springs†.	90	33	59.4	1.37		Goshen* ³	92	39	63.4	0.31	
Clanton†.	87	35	59.8	2.09		Brinkley†.	84	30	55.6	2.46		Grass Valley.				0.02	
Collirene* ¹ .	86	44	66.2	0.90		Camden a†.	83	31	57.2	1.42		Greenville†.	84	22	52.6	0.75	
Cordova†.						Conway* ¹ .	86	35	55.5	1.38		Guinda.				0.15	
Daphne†.	87	44	66.9	4.44		Corning†.	80	23	61.8	0.81		Hollister.	88	40	61.8	0.82	
Decatur†.	84	39	58.8	1.61		Dallas†.	89	31	57.6	2.30		Hueneme.				0.23	
Demopolis†.						Dardanelle†.						Humboldt L. H.				0.04	
Elba†.	92	38	65.8	1.48		Eaton†.	95	31	62.4	1.14		Hydesville†.	84	40	56.6	T.	
Eufaula a†.	89	41	64.6	1.88		Fayetteville†.	84	28	55.6	1.47		Indio* ²	108	68	81.7	0.00	
Eufaula c†.						Forrest†.	84	32	67.2	2.23		Iowa Hill* ¹	88	49	68.4	0.17	
Evergreen†.	89	38	62.8	1.08		Fulton†.						Jackson.	81	44	60.1	0.28	
Florence a†.						Gaines Landing.						Jolon.				1.80	
Florence b†.	83	33	55.6	1.93		Helena a†.						Julian†.	93	35	59.4	0.70	
Fort Deposit†.	89	39	62.6	2.14		Helena b†.	92	31	61.2	1.34		Keeler* ² .	89	44	66.1	0.00	
Gadsden†.	87	31	59.0	0.50		Hot Springs a.	90	32	61.0	1.02		Keene* ³ .	87	42	60.8	1.37	
Goodwater†.	92	34	62.7	2.00		Hot Springs b.						Kennedy Gold Mine.	89	44	64.1	0.19	
Greensboro†.	89	38	60.8	1.25		Hot Springs (near).						Kernville.				0.50	
Healing Springs†.	93	30	60.8	2.36		Keeses Ferry†.	87	21	54.2	0.80		King City* ² .	90	40	58.1	1.46	
Highland Home†.	90	41	65.0	2.17		Kirby†.	84*	34	59.8	1.25		Kingsburg* ² .	90	40	66.6	0.18	
Jasper†.	86	27	55.4	4.35		La Crosse†.	81	26	55.2	1.72		Kono Tayee.	90	48	63.5	0.00	
Livingston†.	89	32	60.7	1.42		Lonoke* ² .	86	36	55.0	1.62		Lagrange* ³ .	96	42	67.6	0.54	
Lock No. 4.						Luna Landing* ² .	86	36	56.3	1.17		La Porte*† ² .	72	34	49.8	0.69	
Madison Station†.	84	30	55.1	1.80		Malvern†.	86	29	55.6	2.72		Lemoore* ² .	92	43	65.4	0.88	
Maple Grove†.	82	30	54.4	2.54		Mossville.	78*	41*	58.8	1.48		Lick Observatory†.	81	41	59.9	0.78	
Marion†.	88	42	62.2	3.26		Mount Nebo†.	76	34	59.2	1.68		Lime Kiln.	98	45	70.0		
Mount Willing†.	90	36	68.0	1.03		New Gасоnу* ¹ .	81*	37*	58.0*	1.93		Lime Point L. H.				0.04	
Newbern†.	89	37	61.3	1.70		Newport a†.						Lodi.	89	40	68.7	0.18	
Newburg†.	91	20	56.5	2.75		Newport b†.	84	28	55.0	0.65		Los Alamos†.				0.38	
Newton†.	88	43	64.2	2.08		Newport c†.	84	25	54.8	1.03		Los Gatos b.	88	38	59.6	1.59	
Oneonta.						Osceola†.	82	31	56.0	1.10		McMullin* ¹ .	98	42	68.2		
Opeikia†.	89	42	63.2	0.90		Ozark†.	88	35	59.5	1.63		Malakoff Mine* ¹ .	81	40	58.7	0.56	
Oxanna a† ¹ .	84	36	60.8	2.70		Pine Bluff†.	88	34	58.6	1.18		Mammoth Tank* ² .	98	60	77.5	0.00	
Pine Apple†.	89	32	58.6	1.82		Pocahontas†.	79	26	52.3	0.82		Manzana.	91	36	59.4	0.40	
Pushmataha†.	91	36	61.1	2.11		Prescott†.	90	34	50.0	1.34		Mare Island L. H.				0.06	
Scottsboro†.	87	28	55.4	1.84		Rison†.	85	29	55.9	1.09		Merced* ² .	89	41	66.5	0.50	
Selma†.						Russellville†.	83	34	56.4	2.17		Middletown*† ¹ .	96	38	62.7	0.00	
Sturdevant†.						Silver Springs†.	78	25	51.2	0.59		Mills College.				0.28	
Thomasville†.	88	42	63.2	0.06		Stuttgart†.	84	32	56.1	1.37		Milford (near)* ¹ .	95	50	69.7	0.08	
Tuscaloosa†.	88	33	59.1	2.30		Texarkan†.	85	25	59.6	2.91		Modesto* ² .	94	40	62.8	T.	
Tuscumbia†.	84	32	54.1	2.50		Warren†.	88	31	59.1	1.12		Mohave* ³ .	93	48	66.1	0.80	
Union†.	88	35	61.4	1.90		Washington†.	82	33	59.5	1.26		Mokelumne Hill* ² .	76	48	62.8	0.13	
Union Springs†.	88	40	62.2	1.00		Wiggs.						Monterey* ² .	76	46	58.3	0.38	
Uniontown†.	91	43	64.2	2.24		Winslow†.	78	32	54.6	2.70		Mount Frazier.				0.30	
Valley Head†.	84	29	55.8	2.02		Witts Springs.	79*	29	52.4	1.10		Mount Glenwood* ¹ .	89	48	69.4	0.07	
Wetumpka.						<i>California.</i>						Mutah Flat.				0.65	
Wilsonville†.						Adin.	82	29	54.6	0.00		Napa b.	87	44	68.1	0.03	
<i>Alaska.</i>						Ager.	86	30	59.5	0.00		Needles†.	103	53	73.4	T.	
Killisnoo†.	55	81	74.8	8.45		Agnew.	87	40	58.8	0.33		Nevada City†.	81	34	56.8	0.00	
<i>Arizona.</i>						Arlington Heights.	100	44	64.9	0.00		Newcastle†.	87	44	64.9	T.	
Arizona Canal Co. Dam.	101	55	76.7	1.14		Athlone* ² .	95	50	66.4	0.25		Newhall* ² .	103	88	68.5	0.10	
Benson* ² .	89	56	70.6	0.00		Ballast Point L. H.						Nordhoff.	97	37	62.6	0.07	
Bisbee†.	78	44	62.8*	1.12		Barstow.	94	37	64.2	0.00		North Berkeley* ¹ .	76	50	60.0	0.05	
Buckeye†.	98	43	70.8	0.40		Centerville.	80	24	53.9	0.09		Oakland a.	84	47	56.0	0.18	
Calabashas†.	84	32	61.8	0.19		Chino* ¹ .	98	50	62.6	0.72		Oreilly* ² .	104	61	76.5	0.00	
Casa Grande* ² .	98	54	72.1	1.60		Chico* ² .	95	41	64.8	0.08		Oleta* ² .	84	41	58.2	0.12	
Dragoon.						Coca* ² .	94	43	65.6	0.00		Orange* ² .	88	45	64.8	0.14	
Dragoon Summit* ² .	90	53	73.1	0.09		Claremont.	67	33	47.6	0.00		Orland* ² .	97	42	68.2	0.00	
Dudleyville.	87	39	65.7	1.58		Cloverdale* ¹ .	92	44	63.2	0.05		Ormonde†.				1.30	
Fort Huachuca.	81	38	60.9	0.35		Coronado.	82	36	60.0	0.27		Orovile b.	92	53	70.3	0.11	
Fort Mohave.	108	44	75.9	0.32		Craigton.	96	40	64.3	0.00		Palermo.	90	39	68.8	0.03	
Gila Bend a* ² .	96	58	76.1	0.50		Crescent City L. H.						Paso Robles b.	91	35	62.8	0.61	
Gila Bend b.	104	52	78.5	1.18		Crescent City†.	83	40	67.6	0.03		Petaluma* ² .	80	46	61.1	0.15	
Giseela†.	85	34	62.6	1.13		Davisville.	93	40	69.5	0.65		Picacho.	100	61	79.3	T.	
Holbrook†.	79	30	55.6	1.24		Delano* ² .	97	46	69.5	0.00		Piedras Blancas L. H.				3.15	
Marcopas* ² .	101	50	75.7	1.10		Deita* ² .	90	42	62.4	0.87		Pigeon Point L. H.				0.12	
Mount Huachucas†.	79	41	60.5	0.57		Delta* ² .	90	42	66.6	0.12		Pilot Creek.				0.61	
Natural Bridge†.						Dry Creek* ² .	93	45	68.0	0.00		Placerville b.	88	38	58.6	0.16	
Navajo* ¹ † ⁵ .	73	43	57.4	1.20		Edgewood* ² .	93	48	54.3	0.00		Point Ano Nuevo L. H.				0.16	
Oracle†.	80	45	68.2	2.18		Edmondton.	82	36	60.0	0.27		Point Arena L. H.				0.08	
Oro.						Edson.	93	40	66.0	0.00</td							

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	Rain and melted snow. Total depth of snow.	Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	Rain and melted snow. Total depth of snow.	Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.				Maximum.	Minimum.	Mean.				Maximum.	Minimum.	Mean.		
<i>California—Cont'd.</i>							<i>Colorado—Cont'd.</i>						<i>Florida—Cont'd.</i>				
Rio Vista.....	90	40	63.0	Ins.	0.19		Hugo * ⁵	77	20	49.2	0.65		Fort Meade +.....	86	49	70.3	2.98
Riverside†.....	100	39	66.0	T.	0.20		Hugo (near) †.....	74	15	45.6	0.15		Frostproof *†.....	89	59	75.6	5.35
Robertson's Mill.....	.....	.....	.....	.....	0.00		Husted.....	81	18	47.2	1.75		Gainesville.....	88	51	68.6	0.64
Roe Island L. H.....	90	35	62.0	0.97			Jamestown.....	86	18	42.1	2.15	8.8	Grasmere†.....	87	56	72.4	2.93
Rosewood.....	90	35	62.0	0.97			Julesburg†.....	82	18	47.0	0.25		Green Cove Springs†.....	87	46	67.8	0.86
Sacramento.....	88	42	62.8	0.27			Kit Carson * ¹	86	27	49.2	.....		Hypoluxo†.....	92	56	74.9	24.39
Salton * ³	86	60	82.7	T.			La Jara†.....	76	18	47.6	1.25	2.5	Kissimmee †.....	87	49	63.8	0.40
San Bernardino†.....	108	38	64.6	0.00			Lake Moraine†.....	53	11	36.3	1.65	23.0	Lake City†.....	89	51	71.8	2.00
San Jose †.....	84	38	58.4	0.83			Lamar†.....	85	18	52.9	0.18		Manatee†.....	87	62	75.2	6.59
San Leandro * ¹	92	52	62.5	0.26			Laporte.....	.....	.....	.....	1.09		Merritt's Island†.....	87	62	75.2	
San Luis L. H.....	.....	.....	.....	.....	0.99		Las Animas†.....	86	18	53.4	0.35		Milton.....	.....	.....	.....	8.00
San Luis Obispo *2.....	.....	.....	.....	1.67			Lay * ¹ *.....	74	18	42.2	0.57		Mullet Key†.....	84	64	74.4	1.86
San Mateo * ²	86	51	61.7	0.33			Leadville (near) * ⁶	85	14	44.8	0.58	6.0	Myers†.....	87	59	74.6	2.23
San Miguel * ⁸	90	36	62.6	0.56			Le Roy†.....	78	11	48.8	0.11		New Smyrna.....	86	54	71.4	3.63
San Miguel Island.....	83	46	60.3	1.27			Livermore (near).....	.....	.....	.....	1.40		Oak Hill * ¹	84	61	76.9	
San Rafael.....	86	39	59.8	0.15			Longmont†.....	79	18	46.6	1.27	1.0	Orange City.....	87	55	73.1	2.14
Santa Ana * ⁴	88	60	72.8	0.00			Longs Peak.....	.....	.....	.....	2.00	11.0	Orlando†.....	80	56	73.9	3.78
Santa Barbara a.....	86	48	63.1	0.55			Loveland.....	.....	.....	.....	0.96		Plant City†.....	80	51	72.4	2.61
Santa Barbara L. H.....	.....	.....	.....	0.45			Manhattan.....	.....	.....	.....	0.90	10.0	St. Francis.....	80	52	72.8	
Santa Clara a * ⁴	82	44	61.3	0.49			Meeker†.....	75	14	44.6	1.48		St. Francis Barracks.....	83	54	69.8	0.76
Santa Clara b.....	94	40	62.5	0.54			Millbrook†.....	76	12	42.5	2.01	2.0	Tallahassee†.....	84	51	67.0	1.96
Santa Cruz b†.....	86	40	61.2	0.49			Minneapolis†.....	88	22	52.7	0.28		Tarpon Springs†.....	87	55	72.0	2.35
Santa Cruz L. H.....	.....	.....	.....	0.25			Monte Vista.....	72	16	44.0	1.17		<i>Georgia.</i>				
Santa Maria.....	84	47	61.8	0.65			Monrose.....	86	25	54.2	1.23		Adairsville†.....	81	31	56.4	0.614
Santa Monica * ⁶	85	58	63.5	0.18			Moraine†.....	67	15	41.4	2.30	14.5	Alapaha†.....	89	44	65.2	0.58
Santa Paula b.....	85	44	61.2	0.00			Ouray†.....	78	30	50.0	0.61		Albany†.....	90	40	64.8	1.09
Santa Rosa * ⁶	81	45	59.6	0.00			Pagoda.....	78	11	44.1	1.25		Americus†.....	82	38	61.8	0.59
Shasta.....	.....	.....	0.12				Paonia.....	.....	.....	.....	0.90		Athens a.....	81	37	56.6	1.27
Shasta Springs.....	86	26	56.4	0.00			Parachute†.....	77	15	50.7	0.71		Athens b†.....	84	34	59.5	1.05
Shedden's Ranch.....	.....	.....	0.16				Pinkhamton.....	80	14	45.8	0.87	5.0	Bainbridge a†.....	89	33	64.4	1.27
S. E. Farallone L. H.....	86	40	59.6	0.67			Rangely†.....	.....	.....	.....	0.20	2.0	Bainbridge b†.....	90	43	66.5	1.00
Stanford University.....	87	39	63.0	0.26			Redclif.....	.....	.....	.....	0.20		Blakely†.....	90	49	66.5	
Stockton a.....	86	40	59.6	0.67			Rico.....	.....	.....	.....			Brinsford.....	85	50	68.4	
Summerdale†.....	.....	.....	0.79				River Bend * ⁵	80	20	52.6	.....		Camak†.....	88	30	59.6	0.87
Susanville.....	79	38	55.4	0.10			Rocky Ford†.....	82	16	51.4	0.85		Canton†.....	79	25	50.6	2.07
Sutter Creek * ⁵	85	34	59.4	0.08			Saginache†.....	70	23	46.0	1.93		Cheyenne†.....	82	40	62.5	0.57
Tecate Dam * ⁴	92	32	55.0	0.68			St. Cloud†.....	.....	.....	.....	2.55		Chesterfield†.....	87	34	58.4	0.35
Tehama * ²	90	42	68.7	2.18			San Juan†.....	70	7	36.4	1.67	5.5	Clayton†.....	79	25	50.6	2.41
Tejón Ranch.....	.....	.....	0.79				San Luis†.....	83	9	45.8	1.83	5.5	Columbus†.....	92	40	62.5	0.57
Templeton * ⁸	92	35	60.7	1.14			Seibert†.....	87	22	40.9	1.30		Cordele†.....	87	34	64.4	1.59
Trinidad L. H.....	.....	.....	0.00				Smoky Hill Mine†.....	78	14	45.4	2.60		Covington.....	84	34	58.5	
Truckee * ⁴	74	22	47.0	0.34			Stamford * ¹	73	16	36.8	2.60	8.0	Dahlonega†.....	84	34	56.6	2.09
Tulare b.....	.....	.....	0.51				Surface Creek†.....	73	24	48.0	1.45		Diamond†.....	77	29	52.8	2.18
Tulare c.....	98	88	66.1	0.43			Thou†.....	75	27	51.2	1.20		Dublin b†.....	84	25	50.6	0.42
Turlock b†.....	96	82	64.0	0.21			T. S. Ranch†.....	79	27	51.3	1.20		Eastman†.....	92	40	63.8	0.21
Ukiah†.....	88	33	59.9	0.21			Twin Lakes.....	.....	.....	.....	1.04	6.0	Elberton†.....	88	38	61.8	0.68
Upper Lake.....	94	35	63.0	T.			Watkins * ¹	78	24	56.3	0.28		Fleming†.....	90	46	65.4	1.64
Upper Mattole * ¹	89	40	57.2	0.00			Wray.....	86	14	49.6	T.		Forsyth * ¹	86	40	68.0	1.45
Vacaville a * ¹	93	42	66.4	0.06			Yuma.....	.....	.....	.....	0.10		Fort Gaines†.....	78	34	56.4	0.40
Ventura.....	90	47	63.2	0.10					.....			Gainesville†.....	88	32	60.0	1.23	
Volcano Springs * ⁸	108	60	79.7	0.00								Gillsville†.....	84	42	61.6	1.90	
Wenrich Ranch.....	.....	.....	0.36									Griffin†.....	84	37	58.0	1.54	
West Point.....	.....	.....	0.85									Hawkinsville†.....	82	44	63.2	2.80	
Wheatland.....	89	40	63.4	0.10								Hephzibah * ⁶	82	44	63.2	0.00	
Williams * ³	91	42	65.0	0.18								Lagrange†.....	87	36	59.8	2.45	
Willows b * ⁸	88	42	67.8	1.29								Louisville†.....	81	34	60.9	0.55	
Wilmington * ³	80	57	69.6	0.00								Lumpkin.....	90	44	66.0	0.90	
Wire Bridge * ⁵	88	38	63.3	0.14								Macon b.....	88	34	59.8	0.40	
Yerba Buena L. H.....	88	25	55.8	T.								Marietta†.....	81	37	58.0	1.54	
Yreka†.....	83	25	55.8	T.								Marshallville†.....	90	41	64.6	0.45	
Yuba City * ⁵	82	33	66.8	0.06								Milledgeville†.....	84	36	62.4	1.15	
<i>Colorado.</i>	.....	.....	.....									Millett†.....	91	34	62.7	0.26	
Alma†.....	61	7	33.6	2.60	5.5							Morgan†.....	90	38	55.2	1.65	
Antlers†.....	80	18	48.2	1.09								Newman†.....	84	31	59.0	2.39	
Arkins.....	.....	.....	.....	1.15								Piscata * ⁴	89	47	68.2	0.67	
Boxelder.....	.....	.....	1.54	1.0								Point Peter * ¹	84	26	58.8	0.85	
Breckenridge†.....	77	0	41.2	1.95	19.5							Poulain†.....	91	38	64.6	2.33	
Brush.....	82	18	50.2	0.00								Quitman†.....	88	45	65.7	0.12	
Byers * ¹	77	19	48.8	2.88	T.							Rainey†.....	82	29	56.8	2.54	
Canyon†.....	80	23	52.2	2.93								Reasac†.....	82	23	56.8	2.39	
Capps.....	.....	.....	0.20									Reynolds†.....	82	23	56.8	0.80	
Castle Rock†.....	75	13	46.8	1.16								Rome†.....	81	32	56.3	2.59	
Climax†.....	55	8	32.6	1.60	16.0							Talbotton†.....	84	40	61.2	1.24	
Collbran.....	.....	.....	1.13									Thomasville†.....	90	44	67.5	0.07	
Colorado Springs†.....	74	18	47.0	1.66	T.							Toccoa†.....	88	34	56.6	0.99	
Craig.....	.....	.....	0.15									Washington†.....	85	39	60.2	0.94	
Crook.....	82	21	49.6	0.10								Way Cross t.....	87	49	62.6	0.88	

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	
<i>Idaho—Cont'd.</i>																		
Hailey†	32	24	30	0.00		Rockford†	74	13	45.2	1.32		Iowa—Cont'd.	○	○	○	Ins.	Ins.	
<i>Idaho City†.</i>	29 ^c	17 ^c	50.8 ^c	0.00		Rose Hill	84	19	51.2	0.53		Fayette	76	8	48.8	0.78		
Kootenai	72	20	47.4	0.00		Rushville†	78	23	51.5	0.83		Forest City	75	11	42.8	0.32		
Lewiston†	85	31	52.2	0.04		St. John††	75	14	45.8	0.73		Fort Madison*†	75	24	50.6	0.47		
Lost River†				T.		Scale's Mound†	76	14	45.8	0.73		Galva†	76	11	45.7	0.27		
Martin†	69	15	45.5	0.00		Streator.	75	15	47.3	1.00		Garden Grove	76	10	45.7	T.		
Moscow†	74	21	45.2	T.		Sycamore*†	71	10	43.8	0.55		Glenwood†	73	17	50.3	0.12	0.2	
Murray†	71	19	44.8	0.32		Tiskilwa* ^a	73	21	49.7	0.78		Grand Meadow*†	68	10	44.0	0.76		
Nampa	84	21	52.4	0.00		Tuscola*†	77	23	47.8	0.35		Greenfield†	76	10	47.2	0.14		
Oakley†	79	24	50.8	T.		Walnut†	78	17	48.4	0.64		Grinnell	71	17	47.2	0.79		
Paris†	81	11	47.7	0.14		Wheaton* ^c	73	16	49.0	1.16		Grundy Center	76	11	44.7	1.17	T.	
Payette†	86	16	53.6	0.00		Winnebago†	73	11	49.8	0.80		Guthrie Center	73	9	44.8	0.39		
St. Anthony	80	18	48.4	0.11		Zion†	71	15	44.2	0.93		Hampton	74	11	42.9	0.92		
Salubria†	82	15	51.2	T.								Hawkeye				0.49	0.1	
Soldier†	82	12	50.1	0.00								Hopeville†	77	15	48.6	0.06		
Swan Valley†	80	5	45.5	0.41								Humboldt†	77	10	45.3	0.80	T.	
Warren†	80	14	47.7	0.20								Independence†	74	16	44.5	0.45		
												Indianola	80	12	46.2	0.38		
<i>Illinois—Cont'd.</i>												Iowa City†	76	10	46.2	1.88		
Albion†	80	22	51.4	0.96								Iowa Falls†	72	6	41.6	0.80		
Alexander†	78	12	50.2	0.28								Keosauqua†	78	14	50.6	T.		
Altamont	76											Knoxville	76	15	47.6	0.40		
Ashton††	72	10	42.8	0.77								Larrabee†	77	7	44.9	0.34		
Atlanta†	80											Le Claire†				0.35		
Atwood ^a * ^c	80	18	43.6	0.24								Lenox*	78	18	48.6	0.07	T.	
Atwood ^b												Logan†	78	8	47.6	0.00	T.	
Aurora† ^b	76	12	45.0	1.11								Madrid	76	7	44.4	0.54		
Beardstown†												Malvern				0.19		
Bloomington†	29 ^a	16	47.6	0.61								Marrison†	72	9	48.1	0.68	T.	
Bushnell†	78	18	49.6	0.71								Mason City†	73	18	48.8	0.53	T.	
Cambridge	73	20	47.2	0.75								Maxon*	71	15	46.8	1.13		
Carlinville†	78	20	50.8	0.42								Mechanicsville	72	8	40.1	1.10		
Carlyle												Monticello*† ^c	78	8	47.6	0.75		
Carrollton	71	23	48.4	0.52								Moar†	78	8	47.7	0.75		
Catlin†	75											Mount Ayr†	78	13	40.0	0.11		
Cazenovia* ^a	76	22	44.9	0.74								Mount Pleasant ^a	73	25	49.7	0.37		
Chemung ^a	74	12	44.5	0.66								Mount Vernon ^a	74	18	45.7	1.20		
Chester†												Neola	88	0	47.8	T.		
Chicago												Newtown†	74	15	46.4	0.69		
Clear Creek†	80	11	47.0	1.24								North McGregor†				0.86		
Coatsburg	74	26	50.3	0.34								Ogden	78	7	47.8	0.78		
Cordova†												Osage*† ^a	14	39.2	0.33		T.	
Decatur†	75	24	50.0	0.55								Oskaloosa†	78	11	46.4	0.42		
Dixon†	75	14	45.8	0.82								Ottumwa	78	15	49.2	0.90		
Duquoin* ^a	79	25	52.8	0.89								Ovid†	78	12	48.8	0.14		
East Peoria†	86	14	46.2	0.81								Panama†	78	12	42.4	0.11		
Evanston ^b	70	18	47.2									Portsmouth	75	9	46.8	T.		
Flora* ^a	79	21	49.8	0.24								Pringhar	75	8	45.4	0.24		
Fort Sheridan†	71	17	44.1	0.41								Rock Rapids	80	4	47.1	0.62		
Friend Grove*† ^c	26	19	49.6	0.26								Sac City†	75	19	44.8	0.25		
Galva†	75	15	45.0	0.67								Seymour†	88	15	49.1	0.48		
Gilmantown†	78	11	48.6	1.17								Sibley				0.45		
Glenwood*† ^a	70	15	49.5	0.74								Sidney				0.13	T.	
Golconda†	78	29	54.1	0.77								Spirit Lake†	80	13	45.0	0.43	T.	
Greenville†	80	21	50.4	0.77								Toledo	72	10	45.1	0.62		
Griggsville†	78	20	51.3	0.35								Villisca†	78	8	45.8	0.15	T.	
Halliday ^a * ^b	76 ^a	21 ^a	52.8 ^a	0.55								Vinton*	75	9	44.5	0.87		
Havana†	75	23	49.9	0.41								Washington†	78	14	47.1	0.67		
Herrings Prairie* ^a	72	34	54.9	0.20								Waterloo	74	12	46.2	0.64	T.	
Hillsboro ^b *† ^c	78	24	51.6	0.68								Waukeee	75	12	49.0	0.24		
Iron†	79	23	51.4	0.33								West Bend† ^c	72	10	42.5	0.37		
Joliet†	79	19	48.4	0.67								Williams	78	10	44.7	0.86		
Jordans Grove†	79	20	52.5	0.41								Wilton Junction†	73	11	45.4	1.26		
Kankakee ^a *	71	20	47.8	1.52								Winterset	75	10	46.0	0.82		
Kankakee ^b *	78 ^a	21 ^a	48.2 ^a	2.24									Kansas—					
Knoxville ^b	78	18	47.7	1.00								Abilene†	84	21	53.0	0.75		
Lagrange†	71	14	45.0	0.77								Achilles ^a	78	12	50.0	0.65	6.0	
La Harpe* ^a	78	18	47.6	0.84								Altoona* ^a ^b	80	28	48.0	0.15		
Lanark† ^c	72	8	49.0	0.86								Atchison	82	20	52.0	0.20		
Lexington*† ^c	72	19	45.8	0.76								Baker	82	16	51.4	0.11	0.5	
Loami†												Beloit†	81	21	50.0	1.02		
Louisville†	75	21	50.0	0.46								Blaine	83	17	51.5	0.49		
McLeansboro*† ^c	26	46.4	0.57									Burlington†	85	24	51.8	0.51	T.	
Martinsville†	78	17	48.8	0.95								Campbell	84	16	52.7	0.41		
Mascoutah ^b *	82	22	52.1	0.50								Colby†	78	13	48.8	0.85	2.0	
Mattoon†	79	28	52.4	0.60								Coldwater†	82	25	52.9	2.00		
Minonk ^a	72	16	46.0	0.87								Collyer ^a	85	18	53.2	1.20	2.0	
Monmouth†	77	18	48.5	0.78								Columbus†	79	24	52.4	0.32		
Morrisonville†	78	17	48.7	0.35								Coolidge†	82	20	52.4	T.		
Mount Carmel†												Cunningham†	84	22	53.6	1.98		
Mount Pulaski	88	19	50.4	0.31								Downs				0.69	T.	
Mount Vernon†	79	22	51.1	0.27								Dresdene* ^c	82	14	50.6	0.45		
New Burnside†	86	17	53.4	0.60								Ellinwood ^b	77	22	53.7	0.05		
Oliney ^a *	72	24	51.4	0.13								Emporia†	87	21	52.0	1.51		
Oliney ^b *	79	20	46.5	0.10								Englewood†	87	24	52.5	0.15		
Oswego ^b *	78	12	42.6	1.05								Eureka†				0.40		
Ottawa†	76	13	45.6	1.16								Eureka Ranch†	81	17	50.6	0.97	5.0</td	

TABLE II.—*Meteorological record of voluntary and other cooperating observers*—Continued.

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Stations.		Temperature. (Fahrenheit.)			Precipita- tion.			Temperature. (Fahrenheit.)			Precipita- tion.			Temperature. (Fahrenheit.)			Precipita- tion.			
		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
Michigan—Cont'd.								Minnesota—Cont'd.							Mississippi—Cont'd.					
Ball Mountain	68	16	41.9	0.52	0.8			Farmington†	72	10	42.1	0.27	T.	Ins.	Vaden	38	28	61.8	2.83	
Battle Creek	69	23	44.1	1.11	0.4			Fergus Falls†	73	7	41.8	0.10	0.7		Water Valley*†	90	33	57.6	2.19	
Benton Harbor	70	23	46.9	0.14	T.			Glencoo†	74	9	42.4	0.1			Waynesboro†	85	35	59.3	2.05	
Berrien*†	76	15	43.4	0.46	0.1			Glenwood	74	8	41.5	0.07	T.		Waynesboro†	94	34	63.0	1.78	
Berrien Springs*	73	20	45.6	1.00	0.5			Grand Meadow†	76	11	40.5	0.20	T.		Williamsburg	93	31	61.1	2.34	
Birmingham	75	19	43.6	0.67				Grand Portage†	58	12	32.4	0.87			Woodville†	96	40	64.4	2.10	
Bois Blanc*†	70	26	45.7					Granite Falls	78	6	41.7	T.			Yazoo City†	88	32	59.2	2.72	
Boon*	60	5	37.0	1.84	10.4			Hutchinson†	72	8	41.8	T.			Missouri					
Bronson	71	17	44.8	1.04	0.2			Koochiching†	65	12	33.7	0.60			Akron					
Calumet	85	21	39.5	0.84	2.8			Lake Winnibigoshish*	89	14	35.7	0.28			Appleton City†	78	22	58.0	0.32	
Charlevoix	70	28	45.6	0.50	1.5			Lawrence†	69	7	48.1	0.10	1.0		Arthur*†		22	47.0	0.50	
Cheboygan	70	15	40.7	1.89	6.0			Leech Lake†	70*	5	37.7	0.18	0.8		Bagnell†					
Climax								Long Prairie†	69	8	39.7	0.04	T.		Bethany	81	17	49.8	0.12	
Clinton	76	15	44.8	0.70				Luverne†	75	10	42.6	0.35	0.4		Birch Tree	79	21	50.6	0.81	
Crisps*†	77	25	41.6					Maple Plain	73	18	42.4	0.10			Bluffton	76	21	50.5	0.27	
Detroit								Mazeppa†	76*	4	41.7	0.00			Boonville†					
Fairview	77	20	44.6	0.62	T.			Milan†	80	2	44.0	0.10	1.0		Brunswick	77	18	52.8	0.05	
Fitchburg	70	15	42.9	1.09	0.2			Minneapolis a†	71	14	49.2	0.09	0.5		Carlton	26	56.3	0.60		
Flint	79	11	41.9	0.52	0.8			Minneapolis b†	70*	11	41.5	0.08	0.5		Conception	78	27	51.8	0.05	
Grand Haven								Minneapolis (W. B)							Cowgill*†	82	24	54.0	0.28	
Grand Point au Sable*†	60	25	47.6					Minnesota City†	70	10	43.4	0.55	T.		Darksville	77	20	52.4	0.40	
Grand Rapids	74	20	43.3	0.39	0.4			Montevideo†	79	8	45.8	T.	T.		Downing					
Grape	70	20	46.6	0.74	0.2			Moorhead†							East Lynne*†	76	20	51.6	0.75	
Grayling	68	7	40.9	2.26	20.0			Morrast†	75	1	43.0	T.	T.		Edgehill*†	76	20	50.6	0.17	
Grindstone City*†	64	29	42.8					Mount Iron†	68	5	37.2	0.50	12.0		Eight Mile*†	81	26	54.4	T.	
Hanover	68	14	45.9	1.63	0.8			New London	78	10	43.0	T.	T.		Elidon*†	86	26	53.6	0.18	
Harbor Springs	67	23	43.0	0.62				New Richland*†	74	12	43.3				Elmira	86	16	50.1	0.30	
Harrisville	72	22	43.0	0.79	3.1			New Ulm†	75	10	45.4	T.	T.		Fairport					
Hart								Park Rapids†	72	4	38.2	0.21	2.1		Farmersville					
Hastings	78	20	43.4	0.80	0.7			Pine River*†	68	9	40.0	0.18	1.0		Fayette	85	23	53.6	0.08	
Hayes	68	26	44.4	0.80				Pleasant Mounds†	75	10	45.6	0.18	T.		Fulton					
Heesperia	70	19	45.4	0.13	1.0			Pokegama Falls†	71*	8	34.4	0.18	2.2		Gallatin*†	76	23	51.2	0.81	
Holland*†	71	20	49.4					Redwing†							Glasgow	82	23	51.4	0.14	
Howell	73	14	43.8	0.75	T.			Reeds Landing	73	14	43.5	0.60	T.		Gordonville*†	74	24	47.6	0.73	
Ivan	68	12	41.2	2.22	14.0			Rolling Green†	73	8	41.6	T.	T.		Gorin*†	83	23	47.2	0.32	
Jeddo	69	10	43.1	0.49				Roseau†	74	5	37.4	0.88	6.0		Grove Dale	84	14	50.1	0.52	
Kalamazoo	70	24	44.8	1.13	0.2			St. Charles†	67	11	41.4	0.73	T.		Half Way	78	18	51.0	0.16	T.
Lansing	69	18	43.1	0.87	T.			St. Cloud†	63	10	40.4	T.	T.		Harrisonville†	81	21	51.6	0.18	
Lathrop*†	70	10	38.8	1.19	7.8			St. Olaf†	76	11	41.4	0.12	1.0		Hastain	78	17	53.3	T.	
Lewiston	50	18	40.9	1.26				St. Paul†							Hermann†					
Madison	70	17	45.2	0.94	0.2			St. Peter†	80	10	43.1	0.18			Houston	80	20	51.2	0.88	
Marquette								Aberdeen†	87	30	59.6	2.00			Houstonia (near)					
Mayville	72	18	44.2	0.83	1.0			Agricultural College	88	40	61.0	2.72			Humansville	79	18	52.0	0.13	
Middle Island*†	65	28	45.8					Batesville†	85	26	55.2	1.69			Ironton*†	75	20	48.4	0.85	
Mottville	75	13	45.0	0.63	0.5			Bay St. Louis	84	48	66.7	3.45			Jefferson City†	78	25	54.9	0.35	
Mount Pleasant	69	14	43.2	0.47	3.2			Biloxi†	73	42	63.4	4.70			Kansas City					
Muskegon Lake*†	62	23	40.7					Brookhaven†	56	30	62.8	1.75			Kidder	79	18	50.2	0.36	
North Manitou Island	70	23	45.8					Canton†	87	37	60.8	2.02			Lamar	76	27	52.8	0.85	
North Marshall	69	18	41.4	1.34	T.			Columbus a†							Lamonte					
Northport	66	19	43.4	2.15	10.0			Columbus b†	98	32	59.6	2.64			Lebanon	82	23	54.3	0.20	
Old Mission	69	24	44.8	1.82	8.9			Corinth†	89	31	57.4	1.34			Lexington†	81	23	53.1	0.19	
Olivet	68	21	44.2	1.20	T.			Crystal Springs†	90						Liberty	83	25	52.8	0.26	
Ottawa Point*†	72	26	45.4					Edwards†	90	35	61.6	1.67			Louisiana Bridge†					
Ovid	64	16	43.4	0.68	T.			Fayette†	93	33	68.0	2.38			McCune*†	79	19	48.3	0.24	
Parkville								French Camps†	91	26	56.1	2.80			Marble Hill	80*	19	51.4	0.30	
Point aux Barques*†	75	22	46.4					Fulton†	84	31	57.0	2.14			Marceline	76	21	49.6	0.35	
Pontiac	68	15	44.2	0.45				Greenville a	82	37	56.7	1.32			Marshall†	82	20	51.0	0.05	
Port Huron								Greenville b†	88	32	56.8	1.20			Maryville*†	76	26	54.4	0.35	
Rockland	66	16	36.5	2.30	7.5			Hazlehurst†	94	36	63.4	2.05			Mexico†	78	21	50.8	0.15	
Romeo	69	18	44.3	0.90	T.			Hernando†	85	35	58.0	0.20			Miami					
St. Ignace	65	16	39.5	1.57	1.0			Holy Springs†	84	34	57.4	1.73			Mine La Motte†	75	20	50.2	0.64	
St. Johns	71	20	45.2	0.59	0.2			Itta Benat†	85	33	57.4	1.73			Mineral Springs	83	26	54.4	1.56	
Sand Beach a	74	18	44.5	0.77	4.0			Jackson†	91	32	60.1	1.91			Mount Vernon	76	17	50.2	0.07	
Sand Beach b*†	64	25	45.3					Kosciusko†	91	33	60.2	2.62			Neosho	81	20	53.4	0.41	
Saranac	69	15	49.0	0.32	T.			Lake†	87	34	57.7	1.74			Nevada					
Sault Ste Marie								Leaf†	90	42	63.4	4.05			New Haven†	78	29	55.0	0.14	
Ship Canal*†	70	26	41.3					Leakesville†	92	38	61.9	4.05			New Madrid	80	29	56.5	1.55	
Somers	70	15	42.4	0.74	0.5			Logtown†	90	41	65.9	2.16			New Palestine					
South Haven	89	24	45.5	0.47				Louisville†	91	33	59.8	2.75			Oakfield†	75	25	52.0	0.31	
Stanton	69	14	42.4	0.58	1.5			Macon†	90	32	58.7	2.37			Oak Ridge*†	77	27	50.2	0.25	
Sturgeon Point*†	63	30	44.5					Magnolia†	85						Oregon a	81	21	53.0	0.24	
Thornville	80																			

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	
Missouri—Cont'd.	○	○	○	Ins.	Ins.		Nebraska—Cont'd.	○	○	○	Ins.	Ins.		Nevada—Cont'd.	○	○	○	Ins.	Ins.	
Virgil City	79	26	58.2	0.39	T.		Hickman ^a	86	22	52.2	T.	Hot Springs ^a	85	22	55.8	0.00				
Warrensburg ^b	79	25	50.8	0.83	T.	Holdredge ^b	91	12	53.4	0.46	3.0	Humboldt ^b	82	19	49.6	T.				
Warrenton	76	25	50.8	0.58	T.	Imperial ^a	83	9	49.2	T.	Las Vegas	85	39	59.3	0.39					
Wheatland						Indianola ^b	90	15	50.2	0.50	5.0	Lewers Ranch	73	28	52.8	0.26				
Willow Springs	89	23	55.8	0.96	T.	Kearney ^b	78	16	48.7	0.25	1.0	Lovelock ^a	88	24	53.2	T.				
Zeitonia ^b	79	29	48.1	0.97		Kennedy ^b	83	6	46.1	0.00		Mill City ^b	87	20	50.5					
<i>Montana.</i>						Kimball ^b	79	10	46.6	0.50		Osceola ^b	81	30	49.8	0.91				
Big Timber	77	18	49.7	0.38		Lincoln	78	15	50.1	0.05	T.	Palsade ^b	87	15	46.3	0.00				
Billingt ^b	89	22	52.2	2.20	5.0	Loupa ^a	96	10	52.0	0.84		Palmetto	91	19	49.0	0.80				
Boulder ^b	70	18	43.4	0.46		Lynch ^a	82	1	45.9	0.02	0.2	Reno ^a	80	28	53.3	0.10				
Bozeman ^b	68	22	43.7	0.44		Lyons						Ruby Valley ^b								
Butte ^b	74	20	45.7	0.17	1.0	McCook ^a	83	16	53.4	0.30	3.0	St. Clair	82	26	52.3	0.52				
Choteau ^b	85	17	50.4	0.30	3.0	Madison ^b	78	5	45.0	0.06	T.	St. Thomas	100	33	67.7	T.				
Cokedale ^b	70	20	45.7	0.30	4.0	Madrid ^a	85	10	49.4	0.09		San Antonio	81	20	51.8	0.61				
Columbia Falls ^b	73	16	42.8	0.26		Marquette	77	13				Silver Peak	86	23	55.3	0.37				
Dillon	75	9	43.9	T.	Mason City						Stofel	80	4	44.8	0.12					
Fort Benton ^b	79	18	46.5	0.04		Minden ^a	78	12	47.5	0.18	1.2	Sunnyside	80	20	49.4	1.88				
Fort Custer ^b	80	21	49.3	0.85		Nebraska City ^b	80	16	49.4			Tecoma ^a	82	32	51.5	T.				
Fort Keogh ^b	84	12	45.0	0.80		Nemaha City ^b	74	16	47.8	0.20		Toano ^a	80	20	44.8	0.15				
Fort Logan ^b	73	9	41.4	0.55		Neshit ^b	84	15	53.5	0.13		Tuscarora	75	42	58.2	0.03				
Fort Missoula	73	13	43.6	0.16		Norfolk ^b	75	10	47.1	0.04		Tybo	73	25	48.6	1.02				
Glasgow ^b	80	17	43.4	0.80		North Loup ^b	78	8	46.8	0.40	4.0	Verdi ^a	78	27	46.0	0.00				
Glendive ^b	82	7	45.9	0.22		Oakdale ^b	76	7	46.2	0.05	0.3	Wadsworth ^b	86	24	42.4	0.05				
Grantsdale ^b	74	10	39.7	0.02		Odell ^a	72	16	51.3	0.27		Wells	79	6	48.8	0.03				
Great Falls ^b	90	24	55.4	0.10		Omaha ^a	72	14	47.2	0.06		Yerlington	81	20	46.6	0.00				
Helena						Omaha (W. B.)						New Hampshire.								
Hogan ^b	78	21	49.0	0.64	4.0	O'Neill ^a	82	7	46.0	T.		Alestead ^b	83	22	42.3	2.39	1.0			
Kipp	81	6	42.4	1.70	1.5	Ord	75	14	49.4	0.56		Belmont								
Libby ^b	80	14	48.0	0.39		Osceola						Berlin Mills	66	11	40.6	1.71	2.5			
Livingston	75	20	49.4	0.48	T.	Ought						Bethlehem	62	16	39.9	1.36	2.0			
Manhattan ^b	73	11	41.8	0.14		Palmer ^a	74	10	44.4	0.10		Brookline ^b	70	22	45.8	6.03				
Martinsdale ^b	75	16	45.4	T.	Palmer ^b						Concord	68		44.6	4.05					
Marysville ^b	70	25	46.0	0.63	4.1	Plattsburgh ^b	80	22	51.8			Dublin	64	21	42.4	5.70	T.			
Poplar	78	0	39.6			Plattsburgh ^b	80	9	46.0	T.		Durham	72	18	45.6	4.47				
Sun River ^b	77	18	45.9	T.	Potter ^a	80	9	46.0			Grafton	68	12	41.4	2.85	1.0				
Toston	77	15	46.2	T.	Ravenna ^a	77	10	48.2	0.40	2.5	Hanover	63	18	48.0	1.42	0.1				
Troy ^b	76 ^d	18 ^d	46.0 ^d	0.59		Ravenna ^b						Keene	67	16	42.2	3.05				
Utica ^b	78	17	46.2	0.00		Red Cloud ^a	78	18	49.6	0.74	3.0	Lakeport								
Virginia City ^b	69	21	44.7	0.19		Red Cloud ^b	80	18	49.6	0.20	2.0	Mine Falls								
White Sulphur Springs ^b	73	13	44.2	0.15	1.0	Republican	80	18	46.4	0.20		Nashua	70	18	44.8	6.50				
Wibaux ^b	90	0	47.1	0.15		Rulo ^b	83	21	52.0	0.00		Newton	68	17	44.1	7.45				
Yalest	77	11	44.4	T.	St. Paul	76	12	49.3	0.20	1.0	North Conway	74	17	42.8	1.90					
<i>Nebraska.</i>						Santee Agency ^b	80	6	47.9	0.11	0.5	Pennichuck Station								
Agee ^a	81	4	46.7	0.10		Schuyler						Peterboro	66	15	41.8	6.52	T.			
Alliance						Seneca ^a	80	20	47.7	0.00		Plymouth	66	12	40.1	2.00	T.			
Ansley ^b	78	7	46.4	0.45	3.0	Seward ^b	80	17	50.8	0.15	T.	Sanbornton ^b	65	19	41.5	4.13	1.0			
Arapaho						Spencer						Stratford	75	14	43.8	2.09	6.0			
Arborville ^b	80	12	49.6	0.23		Springfield ^a	80	44	49.7	0.09		Warner								
Ashland ^a	81	10	50.0	T.	Springfield ^b	85	1	45.1	0.00		Weirs Bridge									
Ashland ^b	80	15	50.4	0.07		Stanton ^a	75	11	47.0	T.		West Milian	99	9	40.3	1.43	1.8			
Ashton	77	10	49.0	0.33	2.5	State Farm	81	11	49.6	0.06		Wolfboro								
Auburn ^a	82	16	51.5	0.23		Strang ^a	85	18	53.7	0.40	0.5	New Jersey.								
Aurora ^b	78	15	48.1	0.22		Stromsburg	76	18	49.8	0.61	T.	Allaire	71	20	48.9					
Bassett	83	2	46.5	T.	Superior ^a	76	12	47.4	0.47	1.0	Asbury Park	69	30	50.8	3.98					
Beatrice ^b	78	15	48.8	0.00		Sutton	76	8	49.7	0.07		Barnegat	73	30	52.5	1.62				
Beaver City	80	14	49.7	0.91	7.0	Syracuse ^b						Bayonne	80	38	51.6	4.54				
Benkelman ^b	82	16	51.6	0.00		Tecumseh ^a	82	14	49.7	0.24		Beachhaven	71	35	53.2	2.02				
Blue Hill ^b	78	15	50.2	0.56	1.5	Tecumseh ^b	79	13	47.9	0.00		Belvidere	75	23	47.6	5.01				
Brattoun ^b	88	17	49.5	0.25		Theodford ^a	84	5	44.8	T.		Beverly ^b	79	27	51.0	3.71				
Burchard ^b	75	20	54.2	0.30		Turlington ^b	82	8	49.7	0.14		Billingsport	70	33	50.9	3.86				
Burwell ^b	78	16	44.4	0.00		Wakefield	78	8	45.9	0.11		Blairstown	80	29	50.8	3.91				
Callaway ^b	72	20	46.2	0.05	1.0	Westing Water ^b	82	90	55.8	0.00		Boonton	80	24	48.9	3.89	T.			
Central City ^b	72	17	53.2	0.21		Whitman						Bridgeton	75	33	53.0	3.98				
Chester ^b	76	12	49.0	0.55	T.	Wilber ^b	82	18	51.2	0.77	2.0	Camden	78	33	50.6	3.94				
Columbus ^b	76	13	48.6	0.07		Wilsonville ^a	80	10	48.0	0.38	5.0	Cape May	78	33	54.6	2.41				
Cornlea						Woodlawn						Cape May C. II. ^b	73	30	53.2	2.24				
Creighton	75	3	45.4	0.10	1.0	York ^a	77	17	49.4	0.00		Charlotteburg	73	18	45.2	4.08				
Crete	78	15	50.4	0.18	2.0	Nevada						Chester	75	22	46.3	5.53				
Culbertson						Austin	73	39	48.0	0.51		Dover	74	21	46.5	4.16	T.			
Curtis ^a	80	13	48.1	0.26	3.0	Battle Mountain ^a	82	29	49.2											

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	In.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	In.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		
<i>New Jersey—Cont'd.</i>							<i>New York—Cont'd.</i>							<i>North Dakota—Cont'd.</i>							
Readington *†	76	50	55.1			In.	Massena	70	18	39.6	0.15		In.	Bismarck	0	0	0	In.	In.		
River Vale	74	21	40.7	5.08		T.	Middletown	70	27	45.0	6.11	T.	T.	Coal Harbor	81	2	40.8	0.00	0.00		
Somerville	83	21	50.0	3.89	T.		Mount Morris	71	27	48.3	0.84	0.5		Dickinson †	80	—	40.9	0.00	0.00		
South Orange	70	28	48.2	3.61			Newark Valley							Ellendale	78	0	36.4	0.27	T.		
Toms River	73	22	49.3	2.50			New Lisbon	67	18	40.2	1.45	1.8		Falconer	83				T.		
Trenton	73	31	52.7	3.43			North Hammond †	70	18	43.6	0.76	1.0		Fargo †	80	—	3	39.8	0.14	1.0	
Vineland	76	22	48.8	2.15			Number Four †	63	18	30.1	2.46	10.5		Forman †	81	—	41.4	0.02	T.		
Whiting	76	26	51.0	2.73			Ogdensburg	69	22	44.4	0.93	0.2		Fort Berthold †	84	—	3	46.7	0.21	0.5	
Woodbine	75	36	50.1	2.79			Oneonta	69	25	45.3	1.06			Fort Yates †	81	—	3	41.0	0.30		
<i>New Mexico.</i>							Oswego							Bismarck	85	—	8	39.2	0.22	1.0	
Albert †	79	31	54.3	1.10			Pine City	72	26	44.7	1.14			Grafton †	80	14	41.0	0.30	1.0		
Albuquerque †	71	32	54.3	0.74			Plattsburgh Barracks	70	19	42.9	2.59	13.8		Jamestown †	84	—	6	42.5	T.		
Alma †	77	24	54.8	1.99			Port Jervis	67	17	41.2	0.91	T.		Lakota	77	8	39.5	0.32	T.		
Aztec †	78	21	52.8	0.51			Poughkeepsie							Laramore †	83	—	7	41.2	0.28	2.8	
Bernalillo †	78	31	53.6	1.05			Rome	72	26	44.7	0.38			Leinenk †	80	—	5	39.1	0.00		
Chama	80	15	49.8	1.27	1.5		Rome	68	24	43.0	2.01			McKinney	71	—	1	39.7	0.41		
Deming *‡	82	52	67.7	0.15			Rome	71	23	45.8	1.15			Milton †	76	7	37.9	0.20	2.0		
Downs Ranch	81	38	56.3	1.96	T.		Rome	69	20	44.8	5.79			Minto †	81	—	11	38.3	0.51		
East Las Vegas †	72	25	49.0	1.13	0.5		Rome	70	19	43.8	0.73	T.		Napoleon †	85	—	2	40.6	0.25		
Eddy †	84	44	64.2	1.80			Rome	70	20	46.2	4.42			New England City †	80	7	41.1	0.00			
Engle †	78	25	55.0	0.21			Rome	65	18	40.8	2.43	4.0		Oakdale †	75	4	43.9	0.05			
Espanola †	77	23	51.9	1.39			Rome	68	24	43.0	2.01			Portal †	74	1	40.0	0.40	T.		
Fort Bayard	73	28	55.5	0.40			Rome	71	23	45.8	1.15			Power †	80	0	42.5	0.17	0.8		
Fort Stanton †	75	23	49.0	0.78	3.0		Rome	68	24	43.0	2.01			St. John †	75	10	41.3	0.17	1.0		
Fort Union	75	20	48.9	1.17	T.		Rome	71	23	45.8	1.15			Sheyenne	72	—	2	40.1	0.01	0.1	
Fort Wingate	78	20	47.2	1.80	T.		Rome	67	15	39.2	1.68	4.0		University †	83	1	40.3	0.17	T.		
Gallisteo †	81	27	54.2	1.48			Rome	67	22	50.9	3.37			White Earth	76	12	39.4	0.35	2.5		
Gallinas Spring †	75	23	52.3	1.00			Rome	70	17	43.1	1.17	1.1		Wild Rice †	86	7	36.7	0.20	2.0		
Gila	83	34	50.6	0.57			Rome	70	17	43.1	1.17			Williston	80	—	2	39.4	T.		
Hillsboro	79	25	54.0	0.99			Rome	72	15	42.6	2.18	9.2		Willow City †	80	—	2	39.4	T.		
Las Cruces	82	26	56.1	1.20			Rome	76	24	46.4	5.03			Woodbridge †	76	7	37.1	0.38	3.0		
Lordsburg *‡	78	45	62.8				Rome	74	16	44.0	0.85	0.1		<i>Ohio.</i>							
Los Lunas †	76	24	52.8	1.60			Rome	70	21	44.0	1.02	1.2		Akron	69	24	45.6	1.17	T.		
Lower Penasco †	76	25	50.5	1.88	3.0		Rome	72	26	47.3	4.22	T.		Annapolis	78	19	47.1	0.67	T.		
Monerot †	75	13	44.2	0.94			Rome	65	18	40.4	2.71			Ashland	67	19	44.1	1.26	T.		
Ocate †	77	17	45.2	0.96	0.5		Rome	62	20	39.5	3.71	27.1		Ashtrabula	68	29	47.9	3.97	10.0		
Pecos							Rome	72	15	42.6	2.18	9.2		Athens	76	16	48.4	1.46			
Puerto de Luna †	77	35	55.8	0.67			Rome	76	24	46.4	4.30			Atwater							
Raton †	80	23	50.2	0.03			Rome	74	16	44.0	0.85	0.1		Benton Ridge	79	12	47.0	0.98	T.		
Rincon †	81	26	56.8	0.58			Rome	81	31	57.0	1.18			Bethany	76	14	47.5	0.69	T.		
Roswell	84	32	56.9	2.11			Rome	70	21	44.0	1.02			Big Prairie	70	18	44.8	1.05	T.		
San Marcial †	75	35	54.8	0.82			Rome	72	26	47.3	4.22	T.		Binola	67	19	46.1	1.70	2.2		
Santa Fe							Rome	73	33	50.6	3.53			Bissells	69	22	45.8	1.54			
Taos †	82	17	51.9	1.81	2.0		Rome	80	32	51.2	0.21			Bloomington	76	18	48.5	0.36			
<i>New York.</i>							Rome	78	23	51.2	0.21			Bloomington							
Addison	69	21	45.1	0.80	T.		Rome	81	31	57.0	2.34			Bowling Green	75	18	45.5	1.60			
Akron							Rome	73	21	44.0	1.18			Bucyrus	72	12	48.5	1.71	0.1		
Albany							Rome	80	34	57.0	2.30			Cambridge	75	14	45.2	1.41			
Alfred †	66	18	41.7	1.13	2.9		Rome	82	37	57.2	2.38			Camp Dennison	73	17	50.1	0.77			
Angelica †	68	20	41.8	1.82	4.5		Rome	84	36	58.4	2.50			Canal Dover	72	12	45.2	1.91	T.		
Appleton	70	26	45.0	1.56	2.3		Rome	74	24	49.1	1.77			Canton †	71	23	46.5	1.51	T.		
Arcade	67	20	40.9	2.26	13.0		Rome	86	35	58.2	1.40			Cardington	70	17	45.0	0.96	T.		
Arkwright	66	26	43.4				Rome	78	34	55.4	0.81			Carrollton	66	16	46.3	1.04			
Atlanta							Rome	78	32	56.2	2.49			Cedarville	72	20	52.2	0.86			
Avon	71	22	49.4	0.49	0.8		Rome	80	32	56.2	1.95			Celina	75	20	48.8	0.55			
Baldwinsville	68	26	44.7	1.35	T.		Rome	70	26	47.0	2.83			Cherry Fork	73	12	48.1	1.15	0.57		
Bedford	70	21	47.3	4.10	T.		Rome	70	28	52.7	2.10			Circleville †	80	19	48.8	1.26			
Big Sandy *†	72	24	45.2				Rome	74	30	52.3	1.11			Clarksburg	77	20	48.1	1.26	2.1		
Binghamton	69	20	44.1	0.82	T.		Rome	66	18	44.3	1.21			Cleveland	65	27	46.9	3.04	2.1		
Bloomville	67	11	38.4	2.54	T.		Rome	71	30	55.0	1.94			Cleveland (W. B.)							
Bolivar							Rome	73	30	54.6	2.38			Clifton	78	12	47.6	0.94			
Boyd's Corners							Rome	83	33	55.5	2.00			Coatton	80	8	46.5	1.12			
Brentwood	71	19	40.5				Rome	73	33	52.6	1.17			Colebrook	69	22	44.5	1.54	5.0		
Brookfield	74	26	46.4	0.66	2.5		Rome	83	30	55.1	1.93			Dayton †	74	18	48.8	0.90			
Brooklyn	74	33	52.0	4.16			Rome	80	32	55.4	0.70			Dayton †	75	14	46.0	1.35	T.		
Buffalo							Rome	77	21	50.8	1.40			Defiance	76	20	48.1	1.73	T.		
Canton	67	14	40.8	0.53	1.0		Rome	80	32	55.4	0.70			Demos	76	20	44.8	1.73	T.		
Carmel	69	22	45.8	3.60	T.		Rome	78	35	58.2	2.65			Dupont	74	12	44.8	1.73	T.		
Charlotte *†	67	26	43.9	2.93			Rome	88	34	58.5	2.61			Ellsworth	71	20	45.5	0.88	T.		
Cherry Creek							Rome	73	27	54.5	2.37			Elyria	79	23	48.8	2.24	T.		
Cooperstown †	65	35	42.0	2.17																	

TABLE II.—*Meteorological record of voluntary and other cooperating observers*—Continued.

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Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	
<i>South Carolina—Cont'd.</i>							<i>Tennessee—Cont'd.</i>						<i>Texas.</i>							
Little Mountain.	93	38	64.1	1.30			Rogersville* ¹	75	38	51.2	1.19		Albany* ¹	75	36	50.4	3.19			
Longshore†	86	34	58.8	1.14			Rugby* ¹	75	38	49.3	2.47		Angleton	94	42	68.8	3.25			
Mount Carmel†							Sewanee	72	34	56.6	4.20		Arthur City	93	42	68.7	2.00			
Pineopolis* ¹	84	38	61.5	0.42			Springdale* ¹	78	38	51.1	2.27		Austin a†	90	44	67.4	2.90			
Port Royal†	86	48	66.2	1.63			Trenton	80	38	53.6	0.77		Austin b* ²	85	48	66.7	...			
Ridgeway†	86	38	59.6	1.30			Tullahoma* ¹	79	38	51.2	2.15		Ballinger†	83	46	59.1	2.13			
St. George†	94	40	62.0	0.18			Waynesboro* ¹	79	38	53.6	2.40		Beeville†	94	49	70.5	2.83			
St. Matthews†	92	40	61.5	1.28			Boerne* ¹	86	51	64.4	1.55		Boerne* ¹	86	51	64.4	3.03			
St. Stephens†							Brady* ¹	88	37	59.4	3.03		Brownsville	75	38	50.4	1.12			
Santuck†	86	30	57.1	0.59			Brazoria†	83	47	68.2	2.84		Celtone* ¹	80	34	54.1	1.12			
Shaws Fork* ¹	90	38	63.6	0.35			Brenham†	91	48	67.2	3.56		Coosharem	73	18	45.6	0.51			
Society Hill†	88	35	58.8	2.71			Burnet* ¹	83	49	64.0	3.47		Levan†	73	18	50.8	0.89			
Spartanburg†	96	32	58.3	0.89			Camp Eagle Pass†	91	38	68.0	0.21		Loa	77	18	48.0	1.00			
Statesburg†	89	39	61.6	1.75			Chillicothe	96	35	58.4	4.55		Logan	76	24	52.1	0.04			
Trenton	87	42	63.1	1.14			Coleman* ³	84	41	59.8	2.97		Manti†	90	14	51.5	0.12			
Trial†	90	38	62.7	0.42			College Station	88	44	66.6	3.35		Millyville†							
Yemassee†	90	39	63.6	0.26			Columbus	87	44	66.6	3.89		Moab†	77	17	52.4	0.47			
Yorkville†	82	35	59.7	1.10			Columbiaville	87	44	66.6	2.47		Moroni†	84	38	53.8	0.52			
<i>South Dakota.</i>							Columbia†	87	44	66.6	2.47		Mount Pleasant* ¹	84	38	53.8	0.52	1.5		
Aberdeen†	82	0	42.8	0.38			Corsicana a	92	41	65.1	6.54		Ogden* ⁴	78	32	53.4	...			
Alexandria†	82	—	44.5	0.20			Corsicana b†	86	38	61.4	4.61		Ogden b* ¹	75	32	53.6	...			
Ashcroft†	85	—	42.8	T.			Cuerot†	89	42	70.2	3.60		Pahreah†	82	24	53.6	0.90			
Bowdle* ¹	78	0	45.3	0.80			Dallast	83	37	60.8	1.35		Parowan†	83	21	49.3	0.58			
Brookings†	77	4	44.3	0.00			Deant ^b	85	32	61.8	2.50		Promontory* ⁵	87	30	57.9	0.00			
Castlewood†	76	1	41.6	0.34	T.		Devine†	89	46	67.7	1.30		Provo City							
Cross†	81	5	44.9	0.08	T.		Dublin†	85	40	60.0	2.47		St. George†	96	20	57.3	0.12			
De Smet†							Durham†						Scipio	82	13	46.9	0.88			
Edgemont							Duval* ¹	90	45	65.2	3.92		Soldier Summit†	73	10	41.8	0.17			
Farmingdale							Estelle†	89	38	62.9	2.32		Terrace*	89	20	56.6	0.00			
Faulkton†	80	—	43.8	0.16			Forestburg†	88	36	60.1	0.98		Thistle†	83	12	41.6	T.			
Flandreau†	75	—	42.6	0.40			Fort Brown†	90	56	73.1	0.78		Vernal†	76	22	47.0	1.03			
Forestburg†	81	—	44.5	0.25			Fort Clark	89	56	70.7	0.55		Vermont.							
Forest City†	85	—	45.6	0.00			Fort McIntosh	91	45	70.0	2.00		Brattleboro	66	20	44.8	2.25			
Fort Meade	84	5	49.4	0.23			Fort Ringgold†	92	45	70.6	0.00		Burlington†	67	20	46.2	0.23	0.5		
Gary†	76	11	42.8	0.12	T.		Fort Stockton						Chesterfield	62	16	38.9	0.91			
Greenwood	82	18	49.6	0.02	T.		Fort Worth	90	41	67.8	2.35		Cornwall	67	23	44.2	1.15			
Highmore†	89	—	42.2	0.23			Fredericksburg* ¹	87	42	61.1	1.56		Enosburg Falls†	69	18	40.2	0.56	2.5		
Hatch City†	84	5	47.5	T.			Gainesville†	90	38	60.7	1.19		Hartland†	65	15	40.7	2.46	0.5		
Howard†	79	—	43.6	0.17			Georgetown* ¹	86	38	62.1	3.60		Irasburg†	64	14	38.0	0.83	4.5		
Huron							Gollindo†						Jacksonville	68	13	39.4	5.21	4.0		
Kimball†	81	7	46.4	0.06			Goree						Northfield							
Leslie†	89	—	47.7	0.00			Graham†	89	33	60.6	1.88		Norwich							
Millbank† ²	76	5	41.6	0.00			Grape Vine†	90	40	64.6	2.05		St. Johnsbury	69	15	41.5	0.51	0.2		
Northville* ¹	76	—	42.0	0.50			Hale Center†	83	39	67.4	3.40		Simonsvile	68	15	37.9	2.78	T.		
Nowlin†	88	—	44.7	0.00			Hallettsville†	88	46	69.4	2.82		Stratford* ¹	68	26	41.6	1.78	11.0		
Oelrichs†	84	6	47.8	T.			Happy†	83	30	55.4	3.85		Vernon* ¹	66	20	45.0	3.99			
Parker†	75	4	43.6	0.20	T.		Haskell†	71	43	60.2	2.57		Wells	65	20	42.8	1.03	T.		
Parkston†	80	0	48.9	0.00	T.		Hearne†	86	48	62.1	5.75		Woodstock	67	14	40.3	1.46	T.		
Plankinton†	81	0	44.4	0.10			Henrietta†	89	32	61.2	1.31		<i>Virginia.</i>							
Rochford							Hewitt†						Abingdon†							
Rosebud†	84	—	46.0	T.			Houston†	96	47	70.0	1.92		Alexandria	75	30	53.8	1.56			
Shiloh†	85	—	44.7	0.08			Huntsville†	88	46	65.4	5.41		Ashe Island†	78	25	52.0	1.55			
Silver City							Kent						Avon†	90	26	58.2	1.12			
Sioux Falls†	76	3	48.2	0.17			Kerrville†	88	37	62.6	1.31		Bedford City	78	29	52.6	1.46			
Tyndall†	88	6	47.9	T.			Lampasas†	90	37	62.1	4.28		Big Stone Gap†	77	19	46.6	2.20			
Vernillion	79	5	46.0	0.00			Leakey†	86	38	64.8	2.30		Birds Nest* ¹	78	38	57.4	4.15			
Watertown†	79	3	40.6	0.37	T.		Liano† ³	87	45	64.9	2.30		Blacksburg†	74	14	46.9	1.38			
Webster†	82	—	42.6	0.21	0.2		Longview†	90	42	62.2	3.59		Buchanan†							
Wentworth†	75	6	48.2	0.00			Lufkin†	90	41	64.6	3.83		Callaville†	76	23	53.0	1.52			
Wessington Springs†	80	9	48.0	0.29			Luling†	89	46	67.2	1.48		Charlottesville	76	27	53.7	2.28			
Yankton†	77	9	47.8	0.10			Marshall†	80	46	63.8	4.25		Christiansburg†							
<i>Tennessee.</i>							Menardville* ¹	84	40	60.5	2.75		Dale Enterprise†	78	20	48.8	1.10	0.3		
Andersonville* ¹	82	28	50.6	2.25			Midland†	94	31	61.3	0.60		Fredericksburg†	78	28	53.5	2.00			
Arlington†	82	26	53.9	1.60			Mount Blanco* ¹	81	34	55.5	0.33		Hampton	73	34	58.2	2.63			
Ashwood* ¹	84	38	54.3	2.10			New Braunfels†	87	46	65.8	1.17		Hot Springs	68	20	47.0	0.55	0.5		
Bolivar†	87	26	54.1	1.73			Orange†	85	42	64.2	3.24		Lexington†	79	22	51.2	1.01			
Bristol†	77	28	49.2	2.06			Paris†	87	33	60.4	0.84		Manassas	76	24	51.3	1.80			
Brownsville†	85	26	55.0	0.97			Roby†	91	29	58.2	2.07		Marion	73	19	47.8	1.79			
Byrdstown†</																				

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		
	Maximum.	Minimum.	Mean.			Maximum.	Minimum.	Mean.			Maximum.	Minimum.	Mean.			
<i>Washington—Cont'd.</i>																
Elbe	o	o	o	Ins.	Ins.	Amherst	o	o	o	Ins.	Wyo ming—Cont'd.	o	o	o	Ins.	Ins.
Ellensburg	38	18	48.6	0.00		Antigo	70	10	42.3	0.50	Lander (V. O.)	72	14	45.4	1.00	1.5
Ellensburg (near)	38	16	48.6	0.00		Apollo	71	4	37.9	0.61	Lander (W. B.)	72	10	40.9	0.74	1.2
Fort Simcoe	38	34	56.7	0.00		Barron	66	6	45.1	0.36	Laramie	70	9	42.8	0.00	7.1
Fort Spokane	79	12	49.5	0.08		Belleville	73	5	41.6	0.62	Lusk	76	9	46.0	0.57	
Grand Mound†	72	29	50.4	0.14		Beloit	71	13	44.8	0.20	Sheridan	70	12	43.9	0.47	1.0
Kennedick†	75	21	52.8	0.00		Black River Falls†	68	3	41.5	0.11	Sundance	73	25	55.5	2.00	
Lakeside†	72	25	51.0	0.00		Butternut	71	8	32.3	0.51	Wheatland					
Lapush	79	36	53.4	1.20		Centralia	73	7	40.2	0.55	<i>Mexico.</i>					
Madrone† ¹	68	38	50.2	0.03		Chilton	73	6	39.4	0.60	Cludad P. Diaz	88	50	70.4	0.22	
Monte Cristo†	78	36	55.4	1.70		City Point	72	9	43.4	0.40	Leon de Aldamas	88	39	63.2	1.41	
Moxee Valley†	80	18	50.6	0.00		Crandon†	72	9	43.4	0.40	Mexico	79	89	59.0	2.43	
New Whatcom†	65	29	48.6	0.64		Delavan†	76	9	43.4	0.40	Puebla	78	26	61.5	2.95	
Olga†	68	38	50.4	0.69		Depere†	72	14	42.8	0.58	Topolobampo ¹	95	67	80.0	10.60	
Pine Hill†	78	24	52.1	T.		Eau Claire	72	10	40.8	0.56	<i>New Brunswick.</i>					
Pomeroy†	84	34	59.0	0.00		Florence†	68	9	35.4	0.26	St. John	61	26	48.5	3.19	1.0
Rosalia†	75	18	49.4	0.01		Fond du Lac†	69	8	41.6	0.31	West Indies.					
Silver Creek ¹	74	29	49.8	0.81		Grantsburg†	80	7	44.3	0.04	Grand Turk Island					0.92
Snoshomish†	74	32	51.4	0.40		Green Bay										
South Bend†	82	32	57.0	1.07		Hartford										
Stillaguamish†	65	23	47.4	0.21		Harvey†	74	10	42.9	0.68						
Sunyside†	81	21	51.8	0.00		Hayward	69	8	39.0	0.26						
Tacoma†	73	28	50.9	0.14		Hillsboro	74	4	42.2	0.12						
Union City†	72	33	51.3	0.27		Janesville†	75	11	41.0	0.19						
Vashon	69	29	45.8	0.02		Kenosha ¹⁰	76	20	48.8							
Watervliet	73	28	48.9	0.00		Koepenick† ¹¹	66	6	37.5	1.40						
Wenatchee Lake	78	20	49.0			La Crosse										
West Ferndale†	71	29	49.9	0.67		Lancaster†	71	14	41.4	0.94						
<i>West Virginia.</i>						Lincoln ¹²										
Beverly†	78	15	47.4	2.27	T.	Madison†	72	18	44.5	0.58						
Bloomery†	70	16	45.3	1.81	T.	Manitowoc†	66	17	42.0	0.53						
Bluefield†	79	19	49.6	1.98	T.	Meadow Valley†	72	9	41.4	0.29						
Buckhannon ^{a†}						Medford†	72	12	38.8	0.52						
Buckhannon ^{b†}	73	16	46.7			Milwaukee										
Charleston†						Nellisville†	68	8	40.0	0.84						
Dayton ¹³	75	24	50.1	0.72		Oconomowoc†	74	10	45.0	0.63						
Elkhorn†	73	22	49.5	2.19	T.	Oconto	70	13	41.8	0.45						
Ella†	73	27	50.5	1.38	T.	Osceola†	73	3	39.9	0.23						
Fairmont†						Oshkosh	70	20	46.8	0.44						
Glenville†	74	16	47.8	0.50		Pepin	72	10	42.2	0.23						
Grafton†	76	17	48.6	1.61		Pine River†	74	5	32.4	0.45						
Green Sulphur	81	19	46.7	0.75		Port Washington	74	16	44.6	0.60						
Harpers Ferry†						Prairie du Chien†	73	7	43.0	0.93						
Hewett†	81	19	50.8	2.02	T.	Racine ¹⁴	70	19	44.7							
Hinton†						Rhineland	66	5	40.2	T.						
Leachtown†	75	21	50.0	1.06		Royalton	75	6	41.7	0.54						
Marlinton	75	10	48.4	1.35	T.	Sharon†	72	17	41.9	0.72						
Martinsburg†	77	23	49.2	1.88	T.	Shawano	73	7	40.7	0.84						
Morganstown ^{a†}						Spooner†	70	5	40.5	0.40						
Morganstown ^{b†}	74	15	46.2	1.02		Stevens Point†	72	10	41.6	0.80						
New Martinsville†	78	20	47.2	1.72		Sturgeon Bay Canal ¹⁰	65	18	42.6							
Nuttallburg†	89	8	47.8	1.45		Two Rivers ¹⁵	62	16	41.2							
Pennsboro	89	15	49.5			Valley Junction†	71	1	41.4	0.15						
Philippi†						Viroqua	70	12	43.2	0.60						
Point Pleasant†	78	19	50.8	1.01		Watertown†	72	18	43.0	0.63						
Powellton†	67	16	44.3	1.35		Waukesha†	73	21	44.6	0.67						
Rowlesburg†						Wausau†	68	10	39.4	0.52						
Sandyville†	76	18	46.0	1.25		West Bend	70	13	43.8	0.12						
Spencer	79	22	51.1	1.45		Westfield†	72	7	42.7	0.40						
Tanner ^{a†}	75	18	47.8			Whitehall†	70	7	41.2	0.30						
Weston†						<i>Wyoming.</i>										
Weston ^{b†}	72	18	48.2	0.75		Big Horn Ranch	73	10	48.1	0.57						
Wheeling ^{a†}						Cheyenne										
Wheeling ^{b†}	73	25	49.4	1.92		Fort Laramie†	66	11	46.2	0.62						
White Sulphur Springs†	88	10	46.0	1.05	T.	Fort Washakie	75	15	42.4	0.85						
						Fort Yellowstone†	69	14	43.4	0.44						

CORRECTIONS.
 Iowa, Jefferson, August, 1895, strike out precipitation data. Louisiana, Abbeville, July, 1895, make mean temperature 80.8 instead of 89.8. Nebraska, Plattsmouth^b, May, 1895, make mean temperature 69.0 instead of 62.0.

The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.
 An italic letter following the name of a station, as "Livingston ^a," "Livingston ^b," indicates that two or more observers, as the case may be, are reporting from the same station. A small Roman letter following the name of a station, or in figure columns, indicates the number of days missing from the record; for instance, "¹⁴" denotes 14 days missing.

No note is made of breaks in the continuity of temperature records when the same do not exceed two days. All known breaks, of whatever duration, in the precipitation record receive appropriate notice.

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TABLE III.—Data from Canadian stations for the month of October, 1895.

Stations.	Pressure.			Temperature.		Precipitation.		Prevailing direction of wind.	Total depth of snow.
	Mean not reduced.	Mean reduced.	Departure from normal.	Mean.	Departure from normal.	Total.	Departure from normal.		
St. Johns, N. F.	Inches.	Inches.	Inches.	o	o	Inches.	Inches.	w.	0.0
Sydney, C. B. I.	29.83	29.96	+ .02	45.6	- 0.2	9.03	.....	sw.	
Grindstone, G. St. L.	29.90	29.96	.00	46.0	0.0	5.04	+ 0.74	T.	
Halifax, N. S.	29.84	29.87	.....	48.4	.....	4.54	.....	nw.	0.3
Grand Manan, N. B.	29.86	29.99	+ .01	45.9	- 0.1	5.52	+ 0.18	nw.	0.7
Yarmouth, N. S.	29.91	29.97	.....	45.8	.....	1.94	- 2.74	w.	1.3
St. Andrews, N. B.	29.90	29.99	+ .01	47.3	- 0.8	8.08	- 1.00	nw.	0.4
Charlottet' n, P. E. I.	29.90	29.94	.....	45.0	.....	1.85	- 1.50	nw.	0.0
Chatham, N. B.	29.92	29.94	- .02	40.7	+ 0.2	3.44	- 1.45	w.	0.0
Father Point, Que.	29.87	29.90	- .06	37.3	- 1.7	1.44	- 1.18	s.	1.0
Quebec, Que.	29.01	29.95	- .04	37.7	- 3.3	0.93	- 2.73	sw.	1.8
Montreal, Que.	29.76	29.97	- .03	40.8	- 2.7	0.72	- 2.89	s.	0.7
Rockliffe, Ont.	29.40	29.99	- .10	35.4	- 3.6	1.13	- 1.57	nw.	1.0
Kingston, Ont.	29.66	29.98	- .05	43.0	- 8.0	1.18	- 1.83	sw.	0.7
Toronto, Ont.	29.62	30.01	- .08	41.6	- 3.9	1.04	- 1.26	w.	1.6
White River, Ont.	28.52	29.91	.....	30.0	- 6.0	9.83	- 0.18	s.	11.9
Port Stanley, Ont.	29.88	30.03	.00	42.9	.....	1.30	- 1.98	w.	0.2

TABLE III.—Data from Canadian stations—Continued.

Stations.	Pressure.			Temperature.		Precipitation.		Prevailing direction of wind.	Total depth of snow.
	Mean not reduced.	Mean reduced.	Departure from normal.	Mean.	Departure from normal.	Total.	Departure from normal.		
Saugeen, Ont.	Inches.	Inches.	Inches.	o	o	Inches.	Inches.	nw.	8.6
Parry Sound, Ont.	29.25	29.98	- .03	41.6	- 3.4	1.99	- 1.82	w.	2.2
Port Arthur, Ont.	29.20	29.98	- .05	39.0	- 8.5	1.90	- 2.43	w.	7.1
Winnipeg, Man.	29.12	29.97	- .02	34.4	- 2.1	0.38	- 1.40	nw.	1.5
Minnedosa, Man.	28.18	29.98	+ .01	38.7	+ 0.2	0.15	- 1.41	nw.	1.4
Qu'Appelle, Assin.	27.75	30.03	+ .09	38.8	+ 2.7	0.25	- 0.77	nw.	0.1
Medicine Hat, Assin.	27.72	30.04	+ .08	43.3	+ 1.3	0.29	- 0.15	s.	0.6
Swift Cur' t, Assin.	27.45	30.07	+ .08	38.4	+ 0.4	0.04	- 1.19	nw.	T.
Calgary, Alberta.	26.44	30.00	+ .04	42.2	+ 8.2	0.21	- 0.15	w.	0.2
Prince Albert, Sask.	28.46	30.01	.....	34.3	.....	0.37	.....	nw.	2.0
Edmonton, Alberta.	27.67	30.03	+ .07	41.7	+ 1.7	0.06	- 0.51	w.	0.0
Battleford, Sask.	28.23	29.98	.....	36.0	.....	0.24	.....	nw.	T.
Spences Br'ge, B. C.	29.30	30.12	.....	48.6	.....	0.30	.....	e.	0.0
Hamilton, Bermuda.	29.86	30.02	.00	74.4	.....	5.57	.....	s.	0.0
Banff, Alberta.	25.50	30.18	.....	37.0	.....	0.17	.....	sw.	.....
Esquimalt, B. C.	30.09	30.12	.....	46.8	.....	0.46	.....	s.	0.0

TABLE IV.—Mean temperature for each hour of seventy-fifth meridian time, October, 1895.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.
Bismarck, N. Dak.	35.9	34.4	33.6	33.0	31.9	31.2	29.8	30.3	32.2	37.5	43.8	38.4	52.4	54.6	56.3	56.8	54.8	50.0	46.3	42.9	40.4	38.1	37.1	39.0	
Boston, Mass.	46.5	46.2	45.8	45.5	45.0	44.8	45.3	47.3	49.3	51.5	53.2	54.7	55.4	55.8	55.3	53.1	51.9	50.6	49.5	49.2	48.5	48.1	47.4	49.3	
Buffalo, N. Y.	45.4	45.0	44.4	44.1	43.9	43.4	43.9	45.6	47.8	49.3	50.4	51.6	52.2	52.7	53.0	52.5	51.7	50.7	49.6	48.3	47.6	47.0	46.6	46.1	
Chicago, Ill.	44.7	43.8	43.0	42.5	42.2	41.5	41.1	41.7	43.5	45.8	48.1	49.3	50.3	50.7	50.8	51.4	50.9	50.0	48.3	46.2	45.9	45.2	46.4	46.4	
Cincinnati, Ohio	47.4	46.7	46.9	44.9	44.0	43.1	42.7	49.3	45.8	49.4	52.8	55.2	57.3	58.6	59.6	59.4	58.5	56.7	51.8	53.0	51.4	49.9	48.4	51.2	
Cleveland, Ohio	45.0	44.7	44.0	43.2	42.9	42.7	42.5	43.7	45.9	48.7	50.2	51.0	51.6	52.0	52.0	51.7	50.7	49.6	48.1	47.3	46.5	45.8	45.2	47.4	
Detroit, Mich.	42.5	41.6	41.1	40.3	39.7	39.1	38.7	40.1	42.8	45.0	47.4	48.8	50.1	50.8	51.5	51.6	50.8	49.6	47.2	46.0	44.8	44.1	43.2	45.2	
Dodge City, Kans.	47.7	46.9	45.6	44.5	43.9	43.8	43.2	41.6	42.8	48.1	53.3	57.3	60.3	62.4	63.9	64.5	64.8	64.2	61.0	55.9	58.4	51.4	49.6	52.4	
Eastport, Me.	42.4	42.0	42.0	41.8	41.7	41.8	42.7	44.3	45.1	46.2	47.3	48.3	49.1	48.3	47.4	46.5	46.1	45.2	44.4	43.7	43.0	42.7	45.0		
Galveston, Tex.	69.5	69.1	68.7	68.2	67.7	67.1	66.6	65.8	65.8	66.5	67.9	69.3	70.2	71.3	72.3	72.3	71.5	70.6	70.3	70.0	69.5	69.8	69.3		
Havre, Mont.	38.9	37.4	36.4	35.3	34.1	33.4	32.8	33.8	32.7	36.0	43.8	48.9	52.3	54.9	57.5	58.9	59.5	59.1	55.8	51.1	46.3	44.4	43.1	40.9	44.4
Kansas City, Mo.	49.4	48.8	47.7	46.8	45.9	45.2	44.2	44.0	45.2	48.3	52.4	55.3	57.7	59.7	61.5	62.5	63.5	61.8	59.6	57.0	54.8	53.6	52.0	50.4	52.8
Key West, Fla.	77.4	77.4	77.2	77.1	77.1	77.1	77.2	78.0	78.5	79.2	79.8	80.1	80.1	80.4	80.3	80.2	79.8	78.9	78.5	78.6	78.8	78.1	77.7	78.5	
Marquette, Mich.	39.1	38.8	38.8	38.4	37.9	37.7	37.5	39.1	40.9	42.1	42.9	43.3	44.4	45.0	45.0	44.9	44.2	42.9	41.8	41.3	40.5	39.9	39.4	40.7	
Memphis, Tenn.	55.1	54.1	52.8	52.1	50.9	50.1	49.5	49.5	51.1	54.9	56.7	61.8	64.3	66.6	66.7	67.5	66.6	64.5	62.5	61.0	59.2	57.6	56.3	58.3	
New Orleans, La.	65.3	65.0	64.3	63.8	63.0	62.5	62.1	62.3	64.2	66.9	70.0	72.3	73.5	74.5	75.1	75.7	75.5	74.4	72.4	70.4	69.1	68.0	67.1	65.8	68.5
New York, N. Y.	49.2	48.5	47.9	47.4	47.2	46.6	46.5	47.5	48.9	50.6	52.7	54.8	55.3	55.9	55.8	55.2	54.8	52.9	51.3	50.4	49.6	48.3	47.8	46.3	
Philadelphia, Pa.	49.0	48.5	47.8	47.3	46.8	46.4	46.5	46.5	50.3	52.4	54.3	56.4	57.8	58.8	59.4	59.0	57.8	56.4	54.9	53.7	52.8	51.8	50.8	52.4	
Pittsburg, Pa.	46.1	45.5	44.7	44.3	44.0	43.3	43.1	44.2	46.1	49.0	51.8	54.0	55.5	56.5	57.2	57.4	56.5	55.4	54.0	52.4	50.8	49.5	48.1	49.8	
Portland, Oreg.	54.7	53.9	52.7	52.1	50.6	49.8	49.3	49.0	47.8	47.6	50.5	53.3	53.2	53.6	53.6	53.2	53.6	52.6	51.8	50.4	48.7	47.7	55.5	55.2	
Rapid City, S. Dak.	43.1	42.3	40.9	40.2	39.5	39.6	39.5	39.9	40.6	41.1	51.4	58.8	56.1	58.0	59.2	59.7	55.1	56.3	55.1	50.8	45.5	42.2	48.0		
St. Louis, Mo.	51.0	49.8	48.8	47.9	47.0	46.5	46.0	45.9	47.7	50.7	55.9	58.4	60.1	61.1	62.0	61.8	60.8	60.9	57.5	57.5	57.7	57.4	58.0	53.7	
St. Paul, Minn.	40.6	39.9	39.2	38.3	37.5	36.9	36.4	36.0	37.5	40.1	43.9	46.3	48.5	49.7	51.3	51.3	50.4	48.2	45.5	44.7	43.2	42.1	40.9	43.4	
Salt Lake City, Utah.	51.9	50.9	50.2	49.4	49.2	47.8	47.0	46.9	46.7	49.1	52.9	57.4	60.7	62.9	63.6	64.4	64.7	63.9	62.4	59.9	56.1	53.2	51.8	54.8	
San Diego, Cal.	62.2	62.0	61.8	61.7	61.3	61.8	60.9	61.0	60.6	61.2	63.0	64.6	66.6	67.5	68.0	68.4	68.4	67.5	66.5	64.8	64.2	63.3	62.8	64.1	
San Francisco, Cal.	55.6	55.3	54.8	54.6	54.6	54.4	53.7	53.6	53.6	53.7	55.2	57.0	58.5	60.0	62.1	63.1	63.7	62.6	61.1	59.3	57.6	57.1	56.6	56.3	
Santa Fe, N. Mex.	46.5	45.8	44.9	44.1	43.0	42.1	41.8	41.2	41.8	46.6	49.3	52.4	55.6	57.9	58.0	57.7	55.9	52.5	49.9	48.5	47.5	46.5	49.1		
Savannah, Ga.	60.9	59.9	58.4	58.7	57.6	57.6	57.9	57.0	60.2	64.5	68.3	71.2	73.2	75.3	75.2	74.8	73.3	69.4	67.7	65.9	64.7	68.8	63.9	65.7	
Washington, D. C.	46.7	46.1	45.5	44.6	44.3	44.2	43.6	46.7	50.4	54.5	56.8	58.8	60.5	61.5	62.1	61.9	61.0	58.2	53.5	51.2	49.9	49.0	47.9	52.2	

* Means for twenty-seven days.

TABLE V.—Mean pressure for each hour of seventy-fifth meridian time, October, 1895.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.
Bismarck, N. Dak.	28.271	27.4	27.8	27.7	28.0	28.4	29.2	29.0	.303	.309	.295	.279	.259	.245	.239	.235	.236	.242	.248	.257	.264	.269	.272	.271	.271
Boston, Mass.	29.875	28.9	28.8	28.7	28.8	28.8	29.0	29.4	.886	.871	.854	.846	.846	.836	.837	.835	.832	.830	.829	.828	.827	.826	.826	.824	
Buffalo, N. Y.	29.265	26.6	25.6	26.0	26.0	26.3	26.9	27.7	.278	.273	.259	.260	.247	.238	.238	.235	.235	.238	.241	.238	.235	.235	.236	.236	
Chicago, Ill.	29.171	17.1	17.0	17.5	18.0	18.6	18.8	19.4	.304	.306	.294	.290	.184	.167	.157	.147	.137	.127	.117	.107	.101	.094	.087	.081	.077
Cincinnati, Ohio	29.442	4.4	4.4	4.4	4.5	4.5	4.6	4.6	.488	.478	.465	.478	.442	.430	.417	.404	.409	.418	.426	.433	.441	.447	.447	.447	.447
Cleveland, Ohio	29.251	.252	.250	.249	.253	.257	.260	.271	.275	.280	.284	.299	.344	.344	.338	.338	.333	.333	.337	.348	.353	.353	.350	.345	.350
Detroit, Mich.	29.256	.256	.251	.252	.257	.262	.269	.275	.275	.276	.276	.276	.270	.263	.247	.238	.238	.238	.231	.234	.239	.248	.254	.254	.254
Dodge City, Kans.	27.522	.523	.521	.518	.516	.519	.528	.532	.544	.553	.556	.553	.553	.544	.521	.500	.498	.498	.489	.477	.481	.491	.511	.522	.518
Eastport, Me.	29.578	.572	.572	.572	.575	.577	.580	.584	.589	.593	.597	.600	.587	.586	.585	.585	.583	.582	.582	.581	.580	.580	.580	.580	
Galveston, Tex.	30.051	.050	.047	.048	.044	.062	.064	.076	.081	.081	.092	.099	.099	.099	.091	.092	.091	.092	.082	.082	.086	.084	.086	.087	.090
Havre, Mont.	27.452	.455	.458	.458	.457	.455	.456	.457	.460	.467	.473	.471	.467	.455	.440	.439	.435	.426	.418	.417	.419	.424	.426	.426	
Kansas City, Mo.	29.128	.135	.134	.136	.142	.148	.154	.169	.177	.175	.173	.171	.155	.131	.113	.101	.098	.094	.087	.104	.109	.117	.128	.132	
Key West, Fla.	29.931	.921	.914	.911	.915	.925	.928	.951	.963	.963	.963	.961	.951	.916	.905	.901	.905	.914	.924	.940	.949	.955	.962	.946	.988
Marquette, Mich.	29.124	.120	.115	.117	.123	.127	.135	.140	.143	.142	.146	.143	.139	.128	.121	.122	.127	.130	.138	.143	.149	.157	.163	.166	.169
Memphis, Tenn.	29.710	.706	.706	.705	.708	.718</td																			

TABLE VI.—Average wind movement for each hour of seventy-fifth meridian time, October, 1895.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.		
Abilene, Tex.	5.5	5.3	4.8	5.4	2.6	5.5	5.3	6.1	6.1	7.2	8.8	9.5	9.9	9.4	9.5	9.8	9.9	9.0	7.4	5.5	5.4	5.1	5.0	5.5	6.9	
Albany, N. Y.	6.3	6.3	6.2	6.0	6.2	5.6	6.7	7.7	9.5	9.9	11.5	12.0	12.2	12.3	11.7	11.8	9.9	8.3	6.8	6.9	7.1	7.0	7.0	8.4		
Alpena, Mich.	8.8	8.5	8.6	8.1	8.3	8.3	8.3	8.5	9.3	11.1	12.5	12.9	13.2	12.9	13.5	14.0	13.2	11.8	10.1	10.1	9.6	9.4	9.0	10.4		
Amarillo, Tex.	15.2	16.0	15.4	14.9	14.5	14.0	14.0	13.4	13.6	13.2	13.9	16.6	16.6	16.3	15.6	14.5	14.1	14.2	14.5	13.1	13.1	13.5	14.5	14.9	14.5	
Atlanta, Ga.	9.1	9.7	9.7	9.7	10.2	10.0	9.6	9.6	9.2	10.4	11.2	11.2	11.4	11.1	11.5	11.3	10.9	9.4	8.2	8.7	8.0	8.9	8.7	9.1	9.9	
Augusta, Ga.	3.8	4.1	5.1	4.5	4.6	4.6	4.6	4.9	4.7	5.4	7.1	7.0	7.4	8.0	8.4	7.8	8.2	7.6	5.7	4.4	3.6	3.3	3.1	3.3	3.5	5.4
Baker City, Oreg.	6.5	7.1	7.6	7.9	8.1	7.3	7.8	8.0	8.0	7.8	6.9	4.9	2.5	2.3	3.7	4.1	5.1	5.3	4.5	4.2	3.0	4.1	4.8	5.6	5.8	5.8
Baltimore, Md.	5.1	5.2	6.0	6.2	6.1	6.0	6.1	7.1	7.6	9.1	8.9	9.2	9.5	10.7	11.5	11.2	10.5	8.1	6.8	6.5	6.3	6.5	6.0	7.6	7.6	
Bismarck, N. Dak.	7.3	8.7	6.9	6.8	7.1	7.7	8.9	8.2	8.3	9.6	11.1	12.9	14.8	16.7	17.0	16.6	15.7	14.2	10.9	8.9	7.9	8.3	7.4	7.5	10.3	
Block Island, R. I.	16.1	15.7	15.6	15.8	15.5	15.4	15.0	16.4	16.7	15.0	15.7	15.9	16.4	16.4	15.9	15.6	15.9	16.4	17.0	17.7	17.0	16.0	16.2	16.0		
Boston, Mass.	10.5	10.8	10.5	10.3	10.3	10.7	11.5	12.3	13.3	14.4	14.7	14.6	14.8	15.3	14.8	13.0	11.7	11.0	10.5	10.9	10.8	10.4	11.0	12.0		
Buffalo, N. Y.	14.2	13.9	13.0	13.3	13.6	13.1	14.5	15.1	16.3	16.6	17.0	17.4	18.2	18.0	18.2	18.2	18.0	18.0	14.9	13.5	13.9	13.7	14.2	15.4	15.4	
Cairo, Ill.	5.5	6.1	5.8	5.8	5.3	5.3	5.3	5.6	6.2	7.3	7.8	8.1	8.8	9.6	9.8	9.6	9.0	7.5	6.2	6.0	6.1	5.9	5.9	5.8	6.8	
Cape Henry, Va.	16.2	17.1	16.5	17.1	16.9	16.3	16.6	17.1	16.5	16.2	16.3	16.0	16.4	16.2	15.0	14.5	13.8	11.8	12.2	14.0	14.9	15.2	15.8	15.5		
Charleston, S. C.	8.6	8.2	8.1	8.3	8.6	8.5	8.6	9.2	9.5	10.3	10.4	10.7	11.0	10.6	10.6	10.7	9.7	8.3	7.6	7.6	7.0	7.2	7.5	8.9		
Charlotte, N. C.	6.0	6.3	6.1	6.0	5.8	6.1	6.1	6.4	7.0	8.0	7.8	7.6	7.9	8.3	8.0	7.0	5.5	5.6	5.8	6.1	6.3	5.9	6.1	6.7		
Chattanooga, Tenn.	4.1	4.4	4.1	4.0	4.1	4.1	4.1	4.3	4.9	6.3	7.3	7.5	8.4	8.3	8.6	9.1	7.8	5.7	4.6	4.3	3.9	3.7	4.8	5.7	5.7	
Cheyenne, Wyo.	7.7	7.9	8.0	8.2	7.6	7.8	8.1	8.8	8.6	10.6	12.3	12.0	12.4	13.5	11.8	12.4	12.5	10.8	8.5	6.8	6.2	6.5	7.4	9.3		
Chicago, Ill.	17.8	17.8	18.5	18.4	17.4	16.4	16.8	16.3	16.0	16.1	16.9	17.1	17.8	18.4	19.4	19.6	17.6	16.1	15.9	16.2	16.8	17.1	17.2	17.2		
Cincinnati, Ohio	5.3	5.0	4.9	5.0	5.1	4.9	4.9	5.4	7.4	8.9	10.1	9.9	10.2	10.6	10.6	10.3	10.2	9.3	7.8	7.0	5.9	5.4	5.2	7.3		
Cleveland, Ohio	14.8	14.8	14.7	14.3	14.3	13.9	14.5	14.8	15.4	15.7	17.5	18.2	18.2	18.2	17.7	18.2	17.8	15.6	14.0	14.6	14.3	13.9	14.1	15.6		
Columbia, Mo.	6.2	6.3	6.7	6.1	6.2	6.5	6.8	6.5	6.9	8.6	9.5	10.4	10.5	11.5	11.8	11.8	11.3	9.3	6.6	6.1	6.6	6.8	6.7	8.0		
Columbus, Ohio	4.5	4.6	4.3	5.3	5.0	5.0	5.0	5.6	5.3	7.4	8.3	9.1	9.7	9.2	9.1	8.6	8.1	7.0	5.7	5.5	5.5	4.7	4.5	6.4		
Concordia, Kans.	6.1	6.0	6.0	5.9	5.1	4.5	3.8	3.9	4.4	6.2	7.6	7.4	7.6	8.3	8.2	8.0	7.8	7.2	4.9	4.2	5.0	5.9	6.1	6.1		
Corpus Christi, Tex.	10.0	10.0	9.3	9.3	8.9	8.9	9.2	9.0	9.0	10.3	10.1	10.0	9.5	10.6	11.4	12.7	12.5	12.0	11.1	10.7	10.5	10.1	10.4	10.4		
Davenport, Iowa	7.8	7.0	7.0	7.4	7.4	7.4	7.0	7.1	8.2	9.0	10.7	12.0	12.7	13.3	14.1	13.9	12.8	10.4	7.7	6.6	7.1	7.3	7.1	9.1		
Denver, Colo.	6.0	6.2	6.4	6.2	5.9	6.4	6.4	6.6	6.6	6.3	5.8	6.8	6.9	7.3	7.3	7.5	8.6	8.0	6.4	6.1	5.7	6.0	6.7	6.7		
Des Moines, Iowa	6.5	6.5	6.1	6.0	6.2	5.8	5.7	6.0	6.4	7.8	9.5	10.3	10.6	10.7	11.2	11.6	11.5	9.8	7.7	6.6	6.0	6.3	7.8			
Detroit, Mich.	10.3	10.8	11.4	11.0	11.5	11.5	11.9	12.0	12.6	14.7	15.4	16.0	16.5	17.3	17.0	16.4	15.5	12.4	10.0	10.7	10.8	10.6	12.8			
Dodge City, Kans.	8.8	8.1	7.3	6.9	7.1	7.1	6.7	6.8	11.7	11.7	11.8	12.1	12.2	12.2	11.7	11.2	9.4	7.5	8.0	9.0	9.2	8.8	9.2			
Duluth, Minn.	9.5	9.8	9.5	9.1	8.8	8.9	8.7	9.1	9.2	10.4	11.3	12.1	12.9	12.9	12.7	12.8	11.7	10.5	9.1	9.4	9.2	9.5	9.7	10.2		
Eastport, Me.	10.1	9.5	9.4	10.0	10.1	10.6	10.8	11.5	13.1	14.1	13.9	14.3	13.8	14.3	14.3	13.8	12.4	10.8	10.9	11.7	11.9	11.3	11.7	11.9		
El Paso, Tex.	9.2	8.6	9.0	8.8	8.9	8.9	8.8	8.3	8.3	9.4	9.9	11.1	10.9	10.6	10.3	10.5	10.4	9.5	8.5	7.4	8.5	9.2	9.2	9.2		
Erie Pa.	12.5	12.2	12.9	12.5	12.9	13.7	12.7	12.0	12.8	12.9	13.7	14.4	14.0	14.0	13.8	13.8	12.9	11.7	11.6	11.5	10.9	11.2	11.4	12.6		
Eureka, Cal.	3.1	3.7	3.1	2.8	3.4	3.4	3.5	3.8	2.7	2.8	3.0	3.6	3.4	3.9	4.9	5.8	7.1	7.4	6.3	6.1	5.8	4.8	4.5	4.2		
Fort Canby, Wash.	7.2	6.5	6.3	6.0	6.4	6.5	6.0	7.0	6.7	6.3	6.4	6.4	6.5	7.7	7.7	7.8	7.8	8.5	9.0	9.1	9.6	8.2	7.2			
Fort Smith, Ark.	4.1	8.9	4.3	4.1	4.2	4.2	4.7	5.3	5.5	5.8	6.0	6.0	5.5	6.0	7.0	7.2	7.4	6.1	4.8	4.0	3.5	3.8	4.0	5.1		
Fresno, Cal.	5.7	5.5	4.8	4.2	3.6	3.1	3.3	3.2	2.6	2.9	2.7	3.3	4.1	3.4	3.6	3.8	4.3	5.1	4.7	4.5	4.9	5.2	5.9	4.1		
Galveston, Tex.	10.0	10.3	10.3	10.5	10.5	10.4	10.4	11.0	11.3	11.2	10.9	10.7	10.5	10.5	10.1	9.7	9.7	8.8	9.1	9.3	9.7	9.5	10.2			
Grand Haven, Mich.	12.0	11.5	12.8	12.5	12.4	11.6	11.1	11.8	12.3	13.4	14.5	14.5	14.5	14.8	14.1	14.1	14.1	13.8	13.3	13.0	11.6	11.8	12.5			
Green Bay, Wis.	8.1	8.2	8.0	8.1	8.1	8.2	8.2	8.3	8.7	10.9	12.4	13.0	13.5	13.2	13.1	13.1	12.8	11.2	9.0	8.3	8.5	8.4	8.7	9.9		
Hannibal, Mo.	6.8	7.0	7.0	7.7	7.7	7.6	7.4	7.8	9.5	10.6	11.1	11.9	12.3	12.5	11.9	12.2	9.0	6.4	6.3	6.8	6.6	7.1	8.6			
Harrisburg, Pa.	4.8	4.7	4.8	4.5	4.7	4.9	4.6	5.0	5.7	7.5	8.3	9.1	10.2	10.6	10.8	10.5	9.3	7.9	6.8	6.5	6.6	6.9	6.9			
Hatteras, N. C.	15.1	15.5	16.2	16.3	16.1	16.4	16.1	16.3	17.0	18.6	18.5	19.2	19.4	19.5	19.7	19.4	19.0	18.0	14.0	14.6	14.8	15.6	15.6			
Havre, Mont.	6.1	5.5	5.7	6.4	6.3	6.5	6.8	6.3	6.6	7.3	9.3	11.4	13.3	13.5	13.5	13.1	13.1	11.6	9.0	5.4	5.7	6.3	8.3			
Helena, Mont.	8.5	6.6	6.0	5.8	5.1	5.0	4.7	4.4	4.4	4.5	4.7	4.4	5.3	5.3	5.6	6.6	6.8	6.1	5.1	5.2	5.3	5.8	6.1			
Huron, S. Dak.	11.2	11.8	11.6	12.4	12.4	12.2	12.0	11.4	11.4	12.1	15.5	16.6	17.7	17.7	17.1	17.5	16.6	13.3	11.7	11.0	11.3	10.7	11.2	13.6		
Idaho Falls, Idaho	5.8	5.1	5.4	5.5	5.5	5.3	5.2	5.1	5.5	5.9	5.5	5.5	5.5	5.5	6.0	7.0	7.5	7.2	6.6	6.5	6.8	6.0	5.6			
Independence, Cal.	4.5	5.4	5.7	5.4	5.9	6.2	6.5	6.1	7.1	6.7	7.3	7.4	8.8	8.0	6.9	6.9	6.7	6.1	5.5	5.8	5.6	5.3	6.3			
Indianapolis, Ind.	4.3	3.8	3.9</td																							

TABLE VI.—*Average wind movement, etc.—Continued.*

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.
Pensacola, Fla.	10.2	10.0	10.2	10.6	10.5	10.0	10.1	9.1	9.5	10.2	10.5	9.7	9.9	10.6	10.8	11.0	10.4	9.4	7.9	8.3	8.4	9.0	9.4	9.6	9.8
Philadelphia, Pa.	9.5	8.5	8.4	8.3	8.0	8.4	8.2	9.7	11.1	12.0	12.4	12.4	13.3	13.6	14.3	12.9	11.6	10.5	10.3	10.8	9.9	10.1	10.1	10.8	
Phoenix, Ariz.	8.4	2.9	2.6	3.1	2.8	3.5	3.4	4.2	4.3	4.4	4.9	5.2	5.8	6.5	6.2	5.8	5.5	5.0	4.0	3.0	3.5	4.5	4.8	3.6	4.3
Pierre, S. Dak.	6.8	5.8	6.3	6.1	5.4	6.0	6.3	6.0	6.5	5.7	7.8	9.3	11.4	12.0	12.7	12.9	13.0	13.2	10.5	8.4	7.4	6.3	5.6	5.9	8.1
Pittsburg, Pa.	4.6	4.6	5.0	5.1	5.4	5.5	5.6	5.4	6.7	8.1	8.8	9.5	9.3	9.4	9.7	8.7	8.6	7.5	6.9	6.4	5.6	5.2	4.8	4.8	6.7
Port Angeles, Wash.	4.4	4.2	4.0	3.8	4.0	4.0	4.3	4.5	4.5	4.2	3.9	3.3	3.1	3.6	4.1	4.2	3.8	4.0	3.5	3.3	3.7	4.1	4.2	4.4	4.0
Port Huron, Mich.	10.7	11.1	11.5	11.3	11.3	11.5	11.7	11.7	12.7	14.9	16.3	15.9	16.0	17.1	15.7	15.5	14.0	11.1	10.6	11.3	11.3	11.6	11.5	11.1	12.8
Portland, Me.	7.4	7.0	7.0	7.2	6.9	7.0	7.6	8.3	9.4	10.5	11.1	11.4	11.3	10.2	9.0	8.3	8.4	8.2	8.1	7.7	7.5	7.6	8.5	7.3	8.5
Portland, Oreg.	6.9	6.6	6.8	6.1	5.9	5.5	6.0	5.6	5.4	5.3	5.3	5.6	6.2	6.6	7.7	8.7	9.5	9.5	8.5	7.8	7.5	7.3	7.2	6.8	7.3
Pueblo, Colo.	6.0	5.6	5.4	5.0	4.8	4.8	4.9	5.1	4.2	3.8	5.0	7.3	8.4	9.3	9.4	9.7	9.6	9.3	7.8	6.0	5.7	5.2	5.7	6.4	5.7
Raleigh, N. C.	5.0	5.5	4.8	4.8	5.1	5.1	5.1	6.0	6.9	8.1	8.4	8.0	8.4	8.5	8.3	8.0	6.6	5.0	4.2	4.4	4.4	4.5	4.7	4.8	6.0
Rapid City, S. Dak.	8.6	8.5	8.8	7.7	7.5	7.5	8.4	9.4	9.0	8.4	8.7	10.7	12.9	13.3	13.7	13.6	13.6	12.5	10.7	7.4	7.8	8.6	9.1	9.7	9.7
Red Bluff, Cal.	4.4	4.1	4.3	4.7	4.4	4.9	4.7	4.5	4.8	4.8	3.9	4.5	5.2	5.5	5.1	5.4	5.2	5.2	5.5	5.1	4.8	4.5	3.8	4.1	4.7
Rochester, N. Y.	7.3	7.2	7.1	7.1	7.2	7.0	7.4	8.2	8.5	10.9	11.3	11.8	11.5	11.4	10.2	9.3	8.3	7.1	6.7	7.1	7.3	6.7	8.6	8.6	
Roseburg, Oreg.	1.4	1.4	1.3	1.4	1.2	1.4	1.3	1.2	1.4	1.6	1.7	2.1	3.0	3.3	3.8	4.3	4.6	4.7	4.3	2.7	3.2	2.0	1.4	2.3	2.3
Sacramento, Cal.	6.9	6.9	7.7	7.9	7.9	7.5	7.0	6.5	6.7	6.0	5.0	5.2	5.5	6.2	6.5	7.3	7.0	6.6	6.4	5.9	6.2	6.5	7.4	7.5	6.7
St. Louis, Mo.	8.8	8.1	8.0	7.5	8.0	8.0	8.0	9.0	9.5	10.2	10.7	10.5	11.2	10.8	11.5	11.6	10.6	9.6	8.7	8.6	8.5	8.9	9.4	8.9	9.4
St. Paul, Minn.	6.7	6.6	6.9	6.6	7.0	7.0	7.1	7.3	7.7	9.3	10.8	11.2	11.6	11.6	11.9	12.6	12.7	10.7	9.0	8.2	8.2	7.7	7.1	8.9	8.9
St. Vincent, Minn.	8.3	8.0	8.3	8.7	9.4	9.5	8.9	9.4	9.1	10.9	11.8	12.3	13.1	14.2	14.1	13.6	12.1	11.0	9.5	8.4	8.0	8.3	8.0	8.1	10.1
Salt Lake City, Utah.	4.8	5.2	5.1	4.9	4.7	4.4	4.4	4.6	4.5	4.0	4.1	4.3	4.6	6.0	7.3	7.8	8.5	8.7	7.2	5.2	4.1	4.2	4.4	4.7	5.3
San Antonio, Tex.	7.7	6.8	6.6	6.5	6.6	7.0	6.9	6.5	6.1	6.5	7.5	8.5	8.8	8.8	9.1	9.3	8.9	8.1	7.8	7.4	7.6	7.6	7.8	7.6	7.6
San Diego, Cal.	2.9	3.2	3.1	2.9	2.9	3.1	3.3	3.2	3.1	3.0	3.1	4.1	5.7	7.6	9.5	10.1	10.5	9.9	8.9	7.5	5.7	4.3	3.8	3.0	5.2
Sandusky, Ohio.	8.8	8.5	9.2	9.3	9.8	9.3	9.0	10.3	10.5	10.4	11.2	11.6	11.9	11.7	11.8	11.7	10.8	9.0	8.4	8.4	8.3	9.0	8.8	10.0	
San Francisco, Cal.	8.4	7.5	7.4	6.2	5.5	5.4	5.5	5.6	5.6	5.4	5.0	4.6	4.9	6.0	7.3	9.4	11.7	13.7	15.1	16.9	15.6	14.4	12.0	10.0	8.7
San Luis Obispo, Cal.	3.2	2.3	2.6	2.2	2.1	2.8	3.5	2.5	2.8	3.1	2.8	2.7	3.1	4.0	5.5	6.3	7.2	6.4	5.9	4.6	3.9	3.8	2.8	2.3	3.7
Santa Fe, N. Mex.	6.4	5.3	4.3	3.9	3.9	3.4	3.1	3.1	3.1	3.4	4.5	6.1	6.8	7.8	7.5	7.3	7.6	7.8	7.4	7.6	7.6	7.8	7.6	7.6	7.6
Sault Ste Marie, Mich.	7.8	7.5	8.0	7.3	8.3	8.1	7.5	8.1	8.7	9.3	9.0	10.9	12.0	12.6	12.6	12.9	11.9	11.7	10.8	10.1	9.2	9.2	8.7	8.3	9.6
Savannah, Ga.	6.9	6.9	6.8	6.6	6.9	7.0	7.4	7.6	8.2	9.7	10.2	10.0	10.6	10.1	10.3	10.1	9.8	7.7	7.0	7.4	7.5	7.4	7.1	8.2	
Seattle, Wash.	2.0	2.3	2.0	2.2	1.9	2.3	2.4	2.6	2.5	2.6	2.9	2.7	3.1	3.4	3.9	4.2	3.9	4.5	4.3	4.6	3.1	2.5	2.5	2.3	3.0
Shreveport, La.	4.6	4.4	4.2	4.2	4.5	4.5	4.6	4.6	4.5	5.7	6.8	7.3	7.0	7.1	7.0	7.6	7.4	6.7	5.8	5.1	5.0	4.9	4.6	4.5	5.5
Sioux City, Iowa.	8.0	7.7	7.8	7.0	6.9	8.5	7.8	8.2	8.3	9.7	11.4	13.6	14.9	16.1	16.4	16.9	16.5	16.2	14.4	11.0	9.5	9.5	9.0	8.5	10.6
Spokane, Wash.	2.6	2.6	2.4	2.1	2.6	2.5	2.3	2.3	2.4	2.3	2.5	3.5	3.8	4.7	4.5	4.1	3.6	3.5	3.8	3.0	2.5	2.3	2.1	2.9	2.9
Springfield, Ill.	7.6	7.8	8.2	8.6	8.3	8.5	8.4	8.8	8.3	10.7	11.1	11.6	11.5	10.1	10.3	10.3	9.7	7.7	7.0	7.5	8.3	8.5	9.3	9.3	
Springfield, Mo.	7.8	7.5	7.7	7.5	7.6	7.2	7.4	7.6	7.8	9.1	9.8	9.9	9.7	10.1	10.3	9.7	9.5	7.9	7.0	7.5	7.1	7.1	7.1	8.1	
Tampa, Fla.	5.8	5.5	5.4	5.5	5.9	6.0	6.0	6.2	7.5	9.0	9.3	9.3	9.0	9.0	9.5	8.9	7.8	6.7	5.8	5.6	6.1	5.6	5.6	7.1	
Tatooish Island, Wash.	10.8	10.8	11.4	12.4	12.7	12.0	11.3	11.8	11.5	12.5	13.2	12.6	12.9	13.9	13.7	13.7	12.9	11.9	10.6	10.1	10.1	11.4	11.8	11.8	
Titusville, Fla.	12.3	12.3	12.1	11.5	11.6	13.1	13.5	13.7	14.7	16.3	17.6	16.9	17.5	18.3	18.3	18.2	18.3	18.2	17.8	16.8	15.5	14.5	12.9	12.2	15.1
Toledo, Ohio.	8.9	8.8	9.3	9.5	9.7	10.1	10.7	9.9	11.0	11.0	11.9	13.1	13.8	14.7	14.3	14.3	14.0	13.8	12.8	11.2	9.2	8.4	8.3	9.0	10.8
Vicksburg, Miss.	5.4	4.7	4.6	4.4	4.4	4.8	4.7	4.8	5.1	6.2	6.6	6.1	6.1	6.7	6.7	7.5	7.2	5.6	4.5	4.5	4.5	5.5	5.5	5.5	
Vineyard Haven, Mass.	8.5	8.6	9.5	9.1	8.7	8.7	8.5	9.1	10.0	10.5	11.3	11.5	11.4	11.4	11.0	10.3	9.4	8.5	8.3	8.7	8.8	9.2	9.5	9.5	
Walla Walla, Wash.	4.0	3.9	3.8	3.7	3.5	4.0	3.4	3.1	3.3	3.4	3.6	2.7	3.2	3.9	3.8	4.1	4.0	3.7	3.1	2.9	4.2	4.4	3.6	4.0	
Washington, D. C.	5.2	5.1	4.5	4.8	4.5	4.5	4.5	4.6	6.2	8.1	9.3	10.9	11.8	12.0	11.5	11.2	9.3	7.0	5.7	5.8	5.7	5.6	7.1		
Wichita, Kans.	6.8	6.8	6.5	6.1	6.0	5.9	6.1	6.3	6.5	7.6	7.6	9.2	9.9	10.7	10.6	9.0	8.7	7.5	5.3	4.3	4.3	5.0	5.2	7.0	
Williston, N. Dak.	5.6	7.0	6.5	6.6	5.8	6.2	6.5	6.4	7.0	9.3	11.5	13.0	15.5	15.4	16.4	16.7	16.5	15.6	12.5	10.5	8.1	6.9	5.7	9.5	
Wilmington, N. C.	6.9	7.4	7.6	7.6	7.8	8.2	8.3	9.1	10.5	11.1	11.0	11.1	10.5	10.6	11.5	10.2	7.5	7.2	6.5	6.6	6.8	6.8	8.5		
Winemucca, Nev.	8.1	8.1	8.0	8.3	8.6	8.2	8.6	8.4	8.0	7.9	7.9	8.3	8.6	8.1	8.0	7.4	8.0	8.4	8.9	7.4	5.5	6.0	6.5	7.5	7.9
Woods Hole, Mass.	17.1	17.5	17.9	17.6	17.0	17.6	17.2	17.2	16.7	16.7	17.0	17.5	17.8	18.2	18.5	17.8	16.5	16.3	16.4	17.0	17.2	16.7	16.9		
Yuma, Ariz.	4.0	4.5	3.6	3.5	3.8	3.9	4.5	4.8	4.3	4.4	4.4	5.0	6.0	6.6	6.4	6.4	6.2	5.8	5.6	5.7	5.2	5.0	5.1	5.1	

TABLE VII.—Heights of rivers above low-water mark, October, 1895.

| Stations. | Distance to mouth of river. | Highest water. | | Lowest water. | | Stations. | Distance to mouth of river. | Highest water. | |
<th colspan
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

TABLE VIII.—Temperature of the wet-bulb thermometer, October, 1895.

Stations.	Local time faster or slower than 75th meridian time.	8 A.M.			8 P.M.			Stations.	Local time faster or slower than 75th meridian time.	8 A.M.			8 P.M.								
		Max.	Min.	Mean.	Max.	Min.	Mean.			Max.	Min.	Mean.	Max.	Min.	Mean.						
<i>New England.</i>																					
Eastport, Me.	h. m.	o	o	o	o	o	o	Up. Lake Region—Con.	h. m.	o	o	o	o	o	o						
Portland, Me.	32 F.	54	26	40.7	54	26	41.3	Milwaukee, Wis.	51 S.	52	20	36.6	53	27	40.7						
Northfield, Vt.	19 F.	55	26	40.2	56	29	42.6	Green Bay, Wis.	52 S.	52	16	32.9	52	25	38.8						
Boston, Mass.	9 F.	51	18	35.2	51	23	36.7	Duluth, Minn.	1 08 S.	48	17	33.8	52	23	37.4						
Nantucket, Mass.	16 F.	59	31	43.1	56	32	44.5	North Dakota.													
Woods Hole, Mass.	20 F.	61	26	48.0	53	33	46.9	Moorehead, Minn.	1 27 S.	46	3	28.5	54	16	36.8						
Block Island, R. I.	17 F.	62	34	46.9	61	35	47.3	S. Vincent, Minn.	1 29 S.	46	17	29.0	52	15	35.1						
New Haven, Conn.	14 F.	62	30	41.9	60	31	44.7	Bismarck, N. Dak.	1 42 S.	44	—	36.7	58	14	37.0						
Albany, N. Y.	5 F.	54	30	40.8	56	31	42.7	Williston, N. Dak.	1 54 S.	40	—	27.5	50	11	36.9						
New York, N. Y.	4 F.	59	33	48.4	58	35	47.5	<i>Upper Mississippi Valley.</i>													
Harrisburg, Pa.	7 S.	54	28	40.6	61	35	45.5	St. Paul, Minn.	1 12 S.	49	15	32.6	54	24	39.0						
Philadelphia, Pa.	0	58	32	43.4	58	36	46.3	La Crosse, Wis.	1 05 S.	49	16	34.3	56	26	41.0						
Baltimore, Md.	6 S.	54	32	42.5	59	35	46.7	Davenport, Iowa.	1 02 S.	53	19	36.2	58	27	42.0						
Washington, D. C.	8 S.	53	30	42.5	59	33	45.5	Des Moines, Iowa.	1 14 S.	54	16	34.6	57	28	42.4						
Lynchburg, Va.	16 S.	54	31	41.8	62	36	42.8	Keokuk, Iowa.	1 06 S.	52	26	41.9	69	35	49.6						
Norfolk, Va.	5 S.	64	38	50.1	62	42	51.7	S. Cairo, Ill.	58 S.	55	20	36.8	60	25	43.2						
South Atlantic States.								Springsfield, Ill.	58 S.	55	22	37.1	60	30	44.2						
Charlotte, N. C.	23 S.	62	31	44.6	62	38	48.3	Hannibal, Mo.	1 05 S.	57	26	41.7	64	32	46.7						
Hatteras, N. C.	3 S.	70	47	57.9	71	48	57.3	St. Louis, Mo.	1 01 S.	59	26	41.7									
Kittyhawk, N. C.	3 S.	66	44	55.0	68	42	55.7	<i>Missouri Valley.</i>													
Raleigh, N. C.	14 S.	68	33	45.9	63	39	49.6	Columbia, Mo.	1 09 S.	57	23	39.6	62	32	44.6						
Wilmingtton, N. C.	13 S.	68	40	52.7	68	42	54.8	Kansas City, Mo.	1 18 S.	61	25	40.1	64	34	46.1						
Charleston, S. C.	20 S.	68	45	55.6	71	49	59.3	Springfield, Mo.	1 24 S.	56	15	35.9	57	27	43.1						
Augusta, Ga.	27 S.	64	38	48.4	67	45	53.7	Sioux City, Iowa.	1 26 S.	53	18	38.0	54	22	40.9						
Savannah, Ga.	24 S.	70	46	55.4	70	50	59.2	Pierre, S. Dak.	1 41 S.	50	3	33.0	59	20	45.0						
Jacksonville, Fla.	26 S.	70	53	60.6	70	57	64.3	Huron, S. Dak.	1 32 S.	46	3	29.5	50	18	39.7						
Florida Peninsula.								<i>Northern Slope.</i>													
Jupiter, Fla.	20 S.	75	68	71.3	75	64	70.9	Havre, Mont.	2 19 S.	43	18	29.1	51	26	40.8						
Key West, Fla.	27 S.	77	69	73.8	78	69	74.2	Miles City, Mont.	2 03 S.	46	14	32.6	55	27	45.9						
Tampa, Fla.	20 S.	72	57	65.5	73	62	67.1	Helena, Mont.	2 23 S.	46	23	33.5	56	30	42.3						
Titusville, Fla.	23 S.	75	60	68.3	75	60	69.5	Rapid City, S. Dak.	1 53 S.	47	10	34.4	58	23	41.4						
Eastern Gulf States.								Cheyenne, Wyo.	1 59 S.	46	12	30.8	48	28	37.5						
Atlanta, Ga.	37 S.	59	39	48.1	64	44	53.9	Lander, Wyo.	2 15 S.	41	10	27.8	50	26	38.7						
Pensacola, Fla.	49 S.	71	46	56.1	73	50	60.7	North Platte, Nebr.	1 43 S.	50	12	31.9	58	29	44.7						
Mobile, Ala.	53 S.	70	44	54.8	74	50	59.6	<i>Middle Slope.</i>													
Montgomery, Ala.	45 S.	62	41	50.0	65	46	55.4	Denver, Colo.	2 00 S.	45	20	34.2	50	32	42.9						
Meridian, Miss.	55 S.	62	37	46.4	65	45	53.8	Pueblo, Colo.	1 58 S.	43	20	33.3	52	32	44.0						
Vicksburg, Miss.	1 03 S.	64	41	49.3	66	44	55.3	Concordia, Kans.	1 31 S.	55	18	37.3	57	30	46.1						
New Orleans, La.	1 00 S.	70	46	57.2	70	50	61.0	Dodge City, Kans.	1 40 S.	57	25	38.0	55	30	45.3						
Western Gulf States.								Wichita, Kans.	1 29 S.	60	25	39.8	64	33	47.3						
Shreveport, La.	1 14 S.	66	40	49.3	67	44	56.5	Oklahoma, Okla.	1 30 S.	63	31	43.2	65	39	50.8						
Fort Smith, Ark.	1 17 S.	64	33	44.6	68	42	52.5	<i>Southern Slope.</i>													
Little Rock, Ark.	1 08 S.	65	36	45.9	66	38	52.6	Abilene, Tex.	1 39 S.	64	25	47.4	70	41	52.9						
Corpus Christi, Tex.	1 30 S.	76	52	62.5	78	52	67.7	Amarillo, Tex.	1 47 S.	55	30	40.4	60	36	47.0						
Galveston, Tex.	1 19 S.	73	52	62.2	73	48	64.3	<i>Southern Plateau.</i>													
Palestine, Tex.	1 22 S.	64	39	56.6	71	45	58.1	El Paso, Tex.	2 06 S.	57	39	45.0	60	42	52.0						
San Antonio, Tex.	1 34 S.	72	43	58.5	73	46	58.3	Santa Fe, N. Mex.	2 01 S.	62	27	38.1	70	33	42.3						
<i>Ohio Valley and Tenn.</i>								Phoenix, Ariz.	2 23 S.	63	45	54.5	70	54	63.0						
Chattanooga, Tenn.	41 S.	60	33	43.9	64	39	51.0	Yuma, Ariz.	2 38 S.	73	48	56.1	71	56	63.0						
Knoxville, Tenn.	36 S.	58	32	42.4	63	39	49.5	Independence, Cal.	2 33 S.	49	33	40.5	58	41	49.4						
Memphis, Tenn.	1 00 S.	62	34	45.5	68	40	53.3	<i>Middle Plateau.</i>													
Nashville, Tenn.	47 S.	62	30	42.1	63	38	50.1	Carson City, Nev.	2 59 S.	43	25	33.6	52	40	45.8						
Lexington, Ky.	38 S.	59	23	39.2	58	29	44.0	Winslow, Nev.	2 51 S.	46	16	29.4	52	39	45.7						
Louisville, Ky.	48 S.	60	25	39.0	59	32	46.4	Salt Lake City, Utah.	2 27 S.	50	32	40.8	56	40	49.0						
Indianapolis, Ind.	44 S.	56	23	38.6	58	29	43.4	<i>Northern Plateau.</i>													
Cincinnati, Ohio.	38 S.	59	23	38.7	56	30	44.0	Baker City, Oreg.	2 51 S.	46	21	33.4	57	36	46.7						
Columbus, Ohio.	32 S.	58	20	37.7	54	31	43.6	Idaho Falls, Idaho.	3 08 S.	43	14	27.9	54	32	42.2						
Pittsburg, Pa.	20 S.	52	26	40.2	57	30	45.1	Spokane, Wash.	2 49 S.	45	22	34.8	56	38	47.6						
Parkersburg, W. Va.	26 S.	54	21	37.2	57	31	44.2	Walla Walla, Wash.	2 53 S.	52	23	42.7	62	40	53.1						
<i>Lower Lake Region.</i>																					
Buffalo, N. Y.	15 S.	51	27	39.6	53	29	41.2	Fort Canby, Wash.	3 16 S.	65	44	50.2	64	46	52.4						
Oswego, N. Y.	6 S.	48	24	38.5	55	26	41.2	Port Angeles, Wash.	3 14 S.	52	35	43.5	56	45	48.5						
Rochester, N. Y.	11 S.	48	27	38.2	54	26	40.9	Seattle, Wash.	3 09 S.	53	30	46.1	57	42	50.6						
Erie, Pa.	20 S.	51	30	40.4	52	29	42.5	Tatooch Island, Wash.	3 19 S.	53	32	47.9	54	45	49.3						
Cleveland, Ohio.	27 S.	54	27	39.1	53	32	42.7	Portland, Oreg.	3 11 S.	54	37	47.0	60	43	53.1						
Sandusky, Ohio.	30 S.	55	35	38.3	55	31	41.6	Roseburg, Oreg.	3 13 S.	53	33	42.7	47	47	54.7						
Toledo, Ohio.	34 S.	55	35	38.6	55	35	40.4	<i>Mid. Pac. Coast Region.</i>													
Detroit, Mich.	33 S.	53	34	36.7	55	30	38.1	Eureka, Cal.	3 17 S.	53	42	48.9	58	47	51.3						
<i>Upper Lake Region.</i>																					
Alpena, Mich.	34 S.	53	20	36.0	54	23	41.4	Red Bluff, Cal.	3 09 S.	57	42	48.8	66	54	58.3						
Grand Haven, Mich.	45 S.	50	24	39.8	54	27	41.4	Sacramento, Cal.	3 06 S.	56	48	50.5	67	56	60.4						
Marquette, Mich.	49 S.	48	20	35.0	52	23	37.4	San Francisco, Cal.	3 10 S.	53	48	52.4	59	50	54.7						
Port Huron, Mich.	30 S.	50	23	36.0	53	29	40.1	<i>S. Pac. Coast Region.</i>													
Sault Ste. Marie, Mich.	37 S.	47	18	34.5	52	24</td															

TABLE IX.—Resultant winds from observations at 8 a. m. and 8 p. m., daily, during October, 1895.

Stations.	Component direction from—						Resultant.		Stations.	Component direction from—						Resultant.	
	N.	S.	E.	W.	Direction from—	Duration.	N.	S.	E.	W.	Direction from—	Duration.					
<i>New England.</i>							<i>Upper Lake Region—Cont'd.</i>										
Eastport, Me.	19	21	8	24	s. 88 w.	16	Milwaukee, Wis.	19	20	4	33	s. 88 w.	29				
Portland, Me.	20	19	6	35	n. 88 w.	29	Green Bay, Wis.	7	31	3	25	s. 48 w.	33				
Northfield, Vt.	20	32	4	19	s. 51 w.	19	Duluth, Minn.	25	18	4	35	n. 77 w.	33				
Boston, Mass.	10	16	7	20	s. 66 w.	14	<i>North Dakota.</i>										
Nantucket, Mass.	24	14	17	21	n. 22 w.	11	Moorhead, Minn.	29	19	5	20	n. 56 w.	18				
Woods Hole, Mass.*	11	8	4	13	n. 72 w.	10	St. Vincent, Minn.	29	19	8	21	n. 52 w.	16				
Block Island, R. I.	24	12	11	33	n. 00 w.	24	Bismarck, N. Dak.	28	14	11	30	n. 39 w.	31				
New Haven, Conn.	30	14	5	27	n. 40 w.	34	Williston, N. Dak.	31	15	4	28	n. 56 w.	29				
<i>Middle Atlantic States.</i>							<i>Upper Mississippi Valley.</i>										
Albany, N. Y.	18	28	7	20	s. 66 w.	14	St. Paul, Minn.	9	19	18	34	s. 65 w.	28				
New York, N. Y.	21	18	8	29	n. 82 w.	20	La Crosse, Wis.	19	27	8	20	s. 56 w.	14				
Harrisburg, Pa.	17	14	12	25	n. 77 w.	13	Davenport, Iowa	12	20	11	23	s. 65 w.	19				
Philadelphia, Pa.	20	13	6	25	n. 48 w.	26	Des Moines, Iowa	25	17	11	24	n. 63 w.	19				
Baltimore, Md.	23	10	5	31	n. 55 w.	32	Keokuk, Iowa	19	21	8	25	s. 55 w.	21				
Washington, D. C.	29	15	5	23	n. 62 w.	23	Cairo, Ill.	30	17	10	14	n. 17 w.	14				
Lynchburg, Va.	20	14	18	22	n. 59 w.	12	Springfield, Ill.	19	21	7	27	s. 84 w.	20				
Norfolk, Va.	30	16	25	11	n. 45 e.	20	Hannibal, Mo.	18	20	5	30	s. 35 w.	25				
<i>South Atlantic States.</i>							St. Louis, Mo.	25	20	11	21	n. 63 w.	11				
Charlotte, N. C.	23	20	31	8	n. 88 e.	23	<i>Missouri Valley.</i>										
Hatteras, N. C.	37	7	19	14	n. 9 e.	30	Columbia, Mo.*	9	11	6	14	s. 76 w.	8				
Kittyhawk, N. C.	21	14	21	19	n. 11 e.	10	Kansas City, Mo.	20	29	10	19	s. 45 w.	13				
Raleigh, N. C.	22	18	7	20	n. 38 w.	21	Springfield, Mo.	23	21	16	16	n. . . .	2				
Wilmington, N. C.	33	12	17	17	n. . . .	21	Omaha, Nebr.	25	22	11	28	s. 76 w.	12				
Charleston, S. C.	35	10	17	12	n. 11 e.	26	Sioux City, Iowa	25	23	18	18	n. 68 w.	5				
Augusta, Ga.	30	9	13	24	n. 28 w.	24	Pierre, S. Dak.	22	22	21	16	s. 32 e.	9				
Savannah, Ga.	38	12	15	11	n. 9 e.	24	Huron, S. Dak.	23	22	11	23	n. 85 w.	12				
Jacksonville, Fla.	37	8	25	11	n. 23 e.	32	<i>Northern Slope.</i>										
<i>Florida Peninsula.</i>							Hayre, Mont.	25	9	9	34	n. 57 w.	30				
Jupiter, Fla.	28	6	30	10	n. 42 e.	30	Miles City, Mont.	19	21	13	17	s. 68 w.	4				
Key West, Fla.	29	5	38	3	n. 58 e.	30	Helena, Mont.	10	31	4	30	s. 51 w.	33				
Tampa, Fla.	42	5	16	6	n. 15 e.	38	Rapid City, S. Dak.	15	17	4	35	s. 37 w.	31				
Titusville, Fla.	33	7	25	11	n. 29 e.	30	Cheyenne, Wyo.	28	13	5	38	s. 50 w.	23				
<i>Eastern Gulf States.</i>							Lander, Wyo.	12	27	7	30	s. 57 w.	28				
Atlanta, Ga.	31	8	19	28	n. 18 w.	33	North Platte, Nebr.	12	24	14	23	s. 48 w.	16				
Pensacola, Fla.	37	7	18	15	n. 6 e.	30	<i>Middle Slope.</i>										
Mobile, Ala.	42	10	4	15	n. 19 w.	34	Denver, Colo.	19	27	14	18	s. 7 e.	8				
Montgomery, Ala.	34	8	18	13	n. 11 e.	26	Pueblo, Colo.	26	9	21	21	n. . . .	17				
Meridian, Miss.	40	8	24	5	n. 31 e.	37	Concordia, Kans.	23	23	8	19	s. 85 w.	11				
Vicksburg, Miss.	34	8	33	6	n. 46 e.	38	Dodge City, Kans.	24	23	21	19	s. 85 e.	12				
New Orleans, La.	35	10	23	12	n. 24 e.	37	Wichita, Kans.	22	27	18	13	s. 45 e.	7				
<i>Western Gulf States.</i>							Oklahoma, Okla.	21	23	18	11	s. 54 e.	9				
Shreveport, La.	33	11	25	6	n. 41 e.	29	<i>Southern Slope.</i>										
Fort Smith, Ark.	22	11	30	8	n. 64 e.	30	Abilene, Tex.	27	22	17	7	n. 68 e.	11				
Little Rock, Ark.	20	13	13	20	n. 45 w.	31	Amarillo, Tex.	16	26	13	4	s. 22 e.	22				
Corpus Christi, Tex.	23	18	26	5	n. 60 e.	32	<i>Southern Plateau.</i>										
Galveston, Tex.	26	15	31	6	n. 66 e.	27	El Paso, Tex.	16	12	40	10	n. 82 e.	30				
Palestine, Tex.	33	9	28	8	n. 40 e.	31	Santa Fe, N. Mex.	16	23	23	19	s. 30 e.	8				
San Antonio, Tex.	43	10	14	3	n. 18 e.	35	Phoenix, Ariz.	4	26	8	21	s. 30 w.	26				
<i>Ohio Valley and Tennessee.</i>							Yuma, Ariz.	26	13	19	18	n. 4 e.	13				
Chattanooga, Tenn.	18	16	14	27	n. 81 w.	13	Independence, Cal.	26	14	11	29	n. 56 w.	23				
Knoxville, Tenn.	24	4	19	18	n. 2 e.	30	<i>Middle Plateau.</i>										
Memphis, Tenn.	32	18	17	10	n. 20 e.	30	Carson City, Nev.	19	15	20	18	n. 27 e.	4				
Nashville, Tenn.	30	10	7	31	n. 50 w.	31	Winnebago, Nev.	26	8	30	11	n. 47 e.	26				
Lexington, Ky.	17	17	17	21	n. 22 w.	11	Salt Lake City, Utah.	16	18	18	25	s. 74 w.	7				
Louisville, Ky.	81	18	5	17	n. 43 w.	18	<i>Northern Plateau.</i>										
Indianapolis, Ind.	24	18	11	27	n. 60 w.	17	Baker City, Oreg.	6	31	6	3	s. 7 e.	25				
Cincinnati, Ohio	24	18	14	21	n. 49 w.	9	Idaho Falls, Idaho	27	17	10	23	n. 50 w.	16				
Columbus, Ohio	21	19	11	26	n. 82 w.	15	Spokane, Wash.	26	17	20	20	n. 43 e.	12				
Pittsburg, Pa.	21	18	8	32	n. 78 w.	24	Walla Walla, Wash.	2	34	20	18	s. 4 e.	32				
Parkersburg, W. Va.	12	23	16	23	n. 29 w.	12	<i>North Pacific Coast Region.</i>										
<i>Lower Lake Region.</i>							Port Canby, Wash.	29	12	15	13	n. 7 e.	17				
Buffalo, N. Y.	15	21	13	31	s. 72 w.	20	Port Angeles, Wash.	6	36	19	14	s. 9 e.	30				
Oswego, N. Y.	12	29	10	23	s. 35 w.	21	Seattle, Wash.	30	16	15	10	n. 20 e.	15				
Rochester, N. Y.	9	29	4	33	s. 55 w.	35	Tatoosh Island, Wash.	2	15	37	12	s. 63 e.	28				
Erie, Pa.	18	20	7	23	s. 58 w.	20	Portland, Oreg.	34	8	9	30	n. 39 w.	33				
Cleveland, Ohio	12	28	18	17	s. 3 e.	16	Roseburg, Oreg.	24	8	11	31	n. 51 w.	26				
Toledo, Ohio	14	18	5	40	n. 88 w.	36	<i>Middle Pacific Coast Region.</i>										
Detroit, Mich.	15	19	6	41	s. 83 w.	35	Eureka, Cal.	26	13	14	19	n. 21 w.	14				
<i>Upper Lake Region.</i>							Red Bluff, Cal.	27	19	15	19	n. 27 w.	9				
Alpena, Mich.	15	23	9	34	s. 72 w.	26	Sacramento, Cal.	18	30	12	15	s. 14 w.	12				
Grand Haven, Mich.	23	20	10	25	n. 79 w.	15	San Francisco, Cal.	5	10	2	52	s. 84 w.	50				
Marquette, Mich.	21	16	3	34	n. 61 w.	31	<i>South Pacific Coast Region.</i>										
Port Huron, Mich.	18	24	3	24	s. 45 w.	30	Fresno, Cal.	27	7	9	37	n. 54 w.	34				
Sault Ste. Marie, Mich.	20	19	17	23	n. 80 w.	6	Los Angeles, Cal.	15	5	14	33	n. 62 w.	22				
Chicago, Ill.	18	23	4	29	s. 81 w.	25	San Diego, Cal.	33	11	9	26	n. 38 w.	28				
							San Luis Obispo, Cal.	30	16	6	30	n. 45 w.	20				

* From observations at 8 p. m. only.

TABLE X.—*Thunderstorms and auroras, October, 1895.*

States.	No. of stations.	Total.																																		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	No.	Days.		
Alabama	55	T.						4			1																						5	2	T.	
Arizona	43	T.	A.		0	2																										0	0	A.		
Arkansas	50	T.	A.			1	1																								0	0	A.			
California	195	T.	A.								1	7	15	1	2	2	7	7	1										44	10	T.					
Colorado	86	T.	1	9								4	1	2	2	1	5	1	1										33	9	T.					
Connecticut	22	T.																													7	4	A.			
Delaware	7	T.																													0	0	T.			
Dist. of Columbia	4	T.	A.						1																					0	0	A.				
Florida	36	T.	A.						1																					1	0	A.				
Georgia	58	T.	A.																											5	0	A.				
Idaho	32	T.	1								1	7	5	1	1														1	1	A.					
Illinois	92	T.	A.			3					3	21	10																17	5	T.					
Indiana	44	T.		1							6																		8	4	T.					
Indian Territory	8	T.	A.			1	1				1	5	1																3	3	A.					
Iowa	96	T.	A.							2																			2	0	T.					
Kansas	68	T.	A.						1	28	18	1	6															55	6	T.						
Kentucky	40	T.	A.							1	6																		8	3	T.					
Louisiana	56	T.	A.			1	6	1																				2	1	A.						
Maine	19	T.	A.																										1	0	T.					
Maryland	36	T.																											0	0	T.					
Massachusetts	83	T.	A.																										4	2	A.					
Michigan	85	T.	A.	1							1																	14	3	A.						
Minnesota	70	T.	A.	2	1						1	2	27	18	6	14	1	1	1	1	4							28	5	T.						
Mississippi	51	T.	A.								5																	83	15	A.						
Missouri	96	T.	A.			1																						11	0	A.						
Montana	36	T.	A.	1							1	1	6	2	2	1	3	2									2	1	T.							
Nebraska	125	T.	A.	1							18	18	1	8	9	2	1	2	2	8							25	18	A.							
Nevada	51	T.	A.																									29	5	A.						
New Hampshire	24	T.	A.								1		7	1													0	0	T.							
New Jersey	53	T.	A.								1	2	6	2													1	0	A.							
New Mexico	33	T.	A.			1																						12	5	T.						
New York	84	T.	A.		2	1																						32	2	A.						
North Carolina	53	T.	A.									10	17														0	0	T.							
North Dakota	36	T.	A.																									0	0	A.						
Ohio	129	T.	A.								1	1	9	3	7	2	9	1	2	1	1	4	1	1	24	1	1	45	16	A.						
Oklahoma	20	T.	A.			2					1	2	27	9	9	1	2	1								33	2	A.								
Oregon	65	T.	A.																									0	0	A.						
Pennsylvania	104	T.	A.									1	2	2	2												9	2	A.							
Rhode Island	8	T.	A.																									3	1	T.						
South Carolina	40	T.			2	3																						35	5	A.						
South Dakota	44	T.	A.			1					2																	23	3	A.						
Tennessee	45	T.	A.								1																	4	0	A.						
Texas	90	T.	A.	1	2	4	6																				1	0	A.							
Utah	34	T.	A.																	4	2	3	1				10	0	A.							
Vermont	16	T.	A.																5								1	1	A.							
Virginia	38	T.	A.																1								9	0	A.							
Washington	48	T.	A.																4	3	2						0	0	A.							
West Virginia	38	T.	A.																4	3	2						1	0	A.							
Wisconsin	59	T.	A.	1															23	16	2	9	8	1	1	8	1	4	10	A.						
Wyoming	11	T.	A.	1	1														2	1								2	2	A.						
Sums	2,726	T.	2	3	15	5	4	14	23	4	0	6	24	4	1	10	27	10	5	4	14	11	14	5	1	1	1	26	50	17	7	9	5	331	...	T.
		A.	7	2	2	1	0	0	1	0	3	4	9	215	182	95	13	52	10	5	5	4	8	12	5	1	1	2	3	1	61	10	A.			

TABLE XI.—Hourly sunshine as deduced from sunshine recorders, October, 1895.

Stations.	Instrument.	Percentages for each hour of local mean time ending with the respective hour.																Monthly summary.			
		A. M.								P. M.								Instrumental record.			
		5	6	7	8	9	10	11	Noon	1	2	3	4	5	6	7	8	Actual	Possible	Per cent of possible.	Personal estimate.
Atlanta, Ga.	T.	50	65	67	70	72	73	74	75	85	86	87	88	72	73	74	75	273.2	350.5	74	74
Baltimore, Md.	T.	70	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	249.4	345.9	74	74
Bismarck, N. Dak.	P.	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	238.6	337.0	74	74
Boston, Mass.	T.	100	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	207.7	342.5	74	74
Buffalo, N. Y.	T.	38	16	15	100	65	68	68	68	68	68	68	68	68	68	68	68	128.9	342.3	74	74
Chicago, Ill.	T.	100	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	263.8	342.8	74	74
Cincinnati, Ohio	T.	100	44	52	55	55	55	55	55	55	55	55	55	55	55	55	55	290.8	346.0	74	74
Cleveland, Ohio	P.	100	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	208.4	348.6	74	74
Columbus, Ohio	T.	80	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	193.4	345.1	74	74
Denver, Colo.	T.	100	43	74	74	74	74	74	74	74	74	74	74	74	74	74	74	287.5	345.3	74	74
Des Moines, Iowa	T.	50	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	295.2	343.1	74	74
Detroit, Mich.	T.	100	39	41	41	41	41	41	41	41	41	41	41	41	41	41	41	269.4	342.3	74	74
Dodge City, Kans.	P.	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	268.5	347.3	74	74
Eastport, Me.	T.	100	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	176.1	339.7	74	74
Galveston, Tex.	P.	57	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	260.1	335.4	74	74
Helema, Mont.	P.	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	230.5	337.0	74	74
Kansas City, Mo.	T.	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	233.6	346.1	74	74
Little Rock, Ark.	T.	86	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	261.4	348.9	74	74
Louisville, Ky.	T.	56	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	270.7	346.7	74	74
Marquette, Mich.	T.	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	104.1	337.4	74	74
New Orleans, La.	T.	57	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	284.0	346.6	74	74
New York, N. Y.	T.	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	241.4	344.0	74	74
Philadelphia, Pa.	T.	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	292.9	345.4	74	74
Phoenix, Ariz.	T.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	307.5	351.2	74	74
Portland, Me.	T.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	211.0	341.7	74	74
Portland, Oreg.	P.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	223.4	348.8	74	74
Rochester, N. Y.	T.	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	206.9	342.2	74	74
St. Louis, Mo.	T.	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	273.1	346.3	74	74
Salt Lake City, Utah.	T.	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	292.0	345.4	74	74
San Diego, Cal.	T.	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	307.8	351.2	74	74
San Francisco, Cal.	T.	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	292.7	347.3	74	74
Santa Fe, N. Mex.	T.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	237.4	349.2	74	74
Savannah, Ga.	T.	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	283.1	351.8	74	74
Vicksburg, Miss.	T.	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	274.7	346.0	74	74
Washington, D. C.	T.	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	256.0	350.5	74	74
Wilmington, N. C.	T.	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	233.7	346.6	74	74

TABLE XII.—Hourly precipitation, October, 1895.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	Midnight.	Total.	
Atlanta, Ga.	0.11	0.07	0.07	0.04	0.09	0.11	0.07	0.02	0.06	T.	0.01	0.01	T.	0.00	T.	0.01	0.00	0.00	0.02	0.07	0.08	0.02	0.04	0.41	1.24
Baltimore, Md.*	0.04	0.08	0.09	0.03	0.01	0.01	0.00	0.00	0.10	0.14	0.18	0.10	0.13	0.15	0.19	0.15	0.13	0.11	0.07	0.03	0.01	0.01	T.	2.82	
Bismarck, N. Dak.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	
Boston, Mass.	0.18	0.38	0.34	0.17	0.11	0.18	0.07	0.22	0.07	0.03	0.10	0.42	0.14	0.15	0.24	0.53	0.48	0.44	0.77	0.49	0.23	0.51	0.70	7.35	
Buffalo, N. Y.	T.	0.01	0.03	0.02	0.05	0.09	0.09	0.11	0.10	0.16	0.12	0.09	0.08	0.04	0.11	0.14	0.10	0.11	0.10	0.07	0.03	0.01	0.01	0.93	
Chicago, Ill.	T.	0.00	0.00	T.	0.02	0.04	0.04	0.04	0.06	T.	0.01	0.01	0.06	0.03	0.02	0.07	0.07	0.06	0.05	0.07	0.07	0.03	0.01	0.01	0.69
Cincinnati, Ohio	T.	0.00	0.00	T.	0.02	0.04	0.04	0.04	0.06	T.	0.01	0.01	0.06	0.03	0.02	0.07	0.07	0.06	0.05	0.07	0.07	0.03	0.01	0.01	0.69
Cleveland, Ohio	T.	0.09	0.01	T.	0.07	0.03	0.03	0.08	0.03	T.	0.01	0.08	0.03	0.06	0.05	0.07	0.07	0.06	0.05	0.07	0.07	0.03	0.01	0.01	1.13
Denver, Colo.	T.	0.04	0.04	0.01	0.02	0.04	0.03	0.08	0.03	T.	0.01	0.08	0.03	0.06	0.05	0.07	0.07	0.06	0.05	0.07	0.07	0.03	0.01	0.01	0.56
Detroit, Mich.	T.	0.05	0.03	0.05	0.05	0.05	0.05	0.08	0.01	T.	0.04	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.09
Dodge City, Kans.	T.	0.01	0.01	0.08	0.05	0.05	0.05	0.13	0.05	T.	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.09
Duluth, Minn.	T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	T.	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.09
Eastport, Me.	T.	0.16	0.08																						

TABLE XIII.—*Excessive precipitation, by stations, for October, 1895.*

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch or more, in one hour.	
		Amt.	Day.	Amt.	Time. Day.
<i>Arizona.</i>	<i>Inches.</i>	<i>Inches.</i>			
Pinal Ranch	4.69	2-3			
<i>Colorado.</i>					
Smoky Hill Mine	2.50	3-4			
<i>Connecticut.</i>					
Canton	4.26	12-13			
Colchester	4.44	12-13			
Falls Village	3.06	12-13			
Hartford <i>b</i>	2.80	12-13			
Lake Konomoc	2.63	12-13			
Middletown	2.55	12-13			
North Franklin	4.80	12-13			
North Grosvenor Dale	6.93	12-13			
Stoors	5.26	12-13			
Voluntown	4.95	12-13			
Wallingford	3.80	12-13			
West Simsbury	4.15	12-13			
Windsor	4.36	12-13			
<i>Florida.</i>					
Fort Meade	2.50	14			
Frostproof	4.00	15			
Hypoluxo	24.39	20-21			
<i>Do.</i>	7.50	23	7.50	5 00	
Grasmere	4.30	15			
Jupiter	21.08	17-18	1.66	1 00	
<i>Do.</i>	4.60	20-22	1.16	1 00	
<i>Do.</i>	6.94		1.13	1 00	
<i>Do.</i>			1.09	1 00	
Merritts Island	2.90	15			
Orlando	2.56	14-15			
Tampa	2.78	15			
Titusville	2.58	22-23			
<i>Kentucky.</i>					
Alpha				1.40	0 10
<i>Louisiana.</i>					
Abbeville	3.35	30			
Baton Rouge	3.30	30-31			
Coushatta <i>a</i>	4.73	30			
Coushatta <i>b</i>	4.81	30			
Franklin	3.95	30			
Grand Coteau	4.60	30			
Jeannerette	3.37	30			
Liberty Hill	2.51	30			
New Iberia	2.63	30			
Opelousas	2.65	30-31			
Oxford	2.63	30			
<i>Massachusetts.</i>					
Amherst Experiment Station <i>b</i>					
Andover	5.68	12-13			
Ashland	5.49	12-13			
Beverly Farms	10.18	7.50	12-14		
Blue Hill (summit)		7.28	12-14		
Boston (W. B.)		5.92	13		
Brockton <i>a</i>		4.92	12-13		
Brockton <i>b</i>		8.92	13		
Cambridge <i>a</i>	10.00	6.75	12-13		
Cambridge <i>b</i>	10.16	6.88	12-13		
<i>Do.</i>		2.87	31		
Chestnut Hill		7.55	12-14		
Clinton		7.65	13-14		
Cohasset		4.77	12-13		
<i>Do.</i>		3.30	31		
Concord		4.74	13		
Dudley		2.50	12-13		
Fall River		3.00	12-13		
Fiskedale		5.38	12-13		
Fitchburg <i>a</i>		4.92	12-13		
Fitchburg <i>b</i>		4.57	12-13		
Framingham	11.28	8.49	12-14		
Groton		3.48	13		
Hingham		5.38	12-13		
Upham Brook		3.07	12-14		

TABLE XIII.—*Excessive precipitation*—Continued.

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.	
		Amt.	Day.	Amt.	Time.
	Inches.	Inches.	Ins.	h.m.	Day.
<i>Massachusetts—Cont'd.</i>					
Lake Cochituate.....	6.95	12-13			
Lawrence.....	4.82	12-13			
Leeds.....	3.96	12-13			
Leominster.....	4.28	13			
Long Plain.....	3.64	12-13			
Lowell a.....	6.33	12-13			
Ludlow Center.....	4.25	12-13			
Mansfield.....	4.70	12-13			
Middleboro.....	3.30	12-13			
Milton.....	6.33	12-13			
Do.....	3.03	31			
Monroe.....	2.73	12-13			
Monson.....	5.25	12-13			
Mount Nonotuck.....	3.03	12-13			
Mount Wachusett.....	6.39	12-13			
Mystic Lake.....	10.69	12-14			
Do.....	2.89	31			
Natick.....	8.00	12-13			
New Bedford a.....	8.14	12-13			
North Billerica.....	6.45	12-14			
Plymouth.....	4.73	12-13			
Roberts Dam.....	6.81	12-14			
Roxbury.....	6.75	12-14			
Salem.....	5.27	12-14			
Do.....	3.54	31			
Salisbury.....	2.85	13			
Somerset.....	4.36	12-13			
Taunton a.....	4.09	12-13			
Wakefield.....	6.60	12-13			
Waltham.....	11.08	12-13			
Webster.....	6.33	12-13			
Westboro.....	6.73	12-14			
Winchester.....	8.25	12-14			
Worcester b.....	6.73	12-14			
	7.54	12-13			
<i>Mississippi.</i>					
Moss Point.....	4.75	12			
<i>New Hampshire.</i>					
Brockline.....	5.40	12-13			
Concord.....	3.20	12-13			
Dublin.....	4.63	12-14			
Durham.....	4.14	12-13			
Newton.....	8.71	12-13			
Peterboro.....	5.00	12-13			
<i>New Jersey.</i>					
Chester.....	4.23	12-13			
Junction.....	3.00	12-13			
<i>New York.</i>					
Honeymead Brook.....	2.52	12-13			
Middletown.....	2.70	12-13			
Do.....	2.91	29			
<i>Pennsylvania.</i>					
Coopersburg.....	2.70	12-13			
<i>Rhode Island.</i>					
Block Island.....	8.46	12-13			
Bristol.....	3.00	12-13			
Kingston.....	4.07	12-13			
Lonsdale.....	5.27	12-13			
Pawtucket.....	5.12	12-14			
Providence a.....	5.28	12-14			
Providence c.....	5.23	12-14			
<i>Texas.</i>					
Abilene.....			1.10	1 00	6
Brenham.....			1.18	1 00	7
Corsicana a.....	2.59	3-4			
Galveston.....			1.19	1 00	30
Huntsville.....	8.10	31			
Lampasas.....	8.20	20-30			
Longview.....	2.50	7			
Marshall.....	3.95	7			
Temple.....	4.00	29			

TABLE XIV.—*Maximum rainfall in one hour or less, October, 1895.*

Stations.	Maximum rainfall in—					
	5 min.	Date.	10 min.	Date.	1 hour.	Date.
Atlanta, Ga.	Inch. 0.13	7	Inch. 0.16	7	Inch. 0.34	7
Baltimore, Md. *						
Bismarck, N. Dak.						
Boston, Mass.	0.10	13	0.19	13	0.70	13
Buffalo, N. Y.	0.14	27	0.27	27	0.29	27
Chicago, Ill.	0.08	6	0.05	6	0.18	6
Cincinnati, Ohio	0.06	11	0.07	11	0.10	11
Cleveland, Ohio	0.15	12	0.17	12	0.26	12
Denver, Colo.	0.03	3	0.05	3	0.25	3
Detroit, Mich.	0.01	12	0.02	12	0.07	12
Dodge City, Kans.	0.04	29	0.06	29	0.15	29
Duluth, Minn.					0.02	10
Eastport, Me.	0.06	28	0.08	28	0.16	14
Galveston, Tex.	0.20	30	0.35	30	1.19	30
Indianapolis, Ind.	0.07	6	0.14	6	0.29	11
Jacksonville, Fla.	0.01	15	0.02	15	0.11	15
Jupiter, Fla.	0.33	10, 15	0.63	10	1.55	10
Kansas City, Mo.					0.02	4
Key West, Fla.	0.25	10	0.43	10	0.85	10
Little Rock, Ark.	0.15	27	0.19	27	0.47	27
Louisville, Ky.	0.02	31	0.03	31	0.11	31
Marquette, Mich.	0.05	7	0.10	7	0.23	10
Memphis, Tenn.	0.00	26	0.12	26	0.37	26
Milwaukee, Wis. *						

TABLE XIV.—*Maximum rainfall—Continued.*

Stations.	Maximum rainfall in—					
	5 min.	Date.	10 min.	Date.	1 hour.	Date.
Nantucket, Mass.	Inch. 0.08	12	Inch. 0.05	12	Inch. 0.29	12
Nashville, Tenn.	0.05	7	0.08	7	0.21	7
New Orleans, La.	0.15	30	0.23	30	0.50	30
New York, N. Y.	0.12	13	0.21	13	0.90	12
Norfolk, Va.	0.06	31	0.11	31	0.40	31
Omaha, Nebr.					0.01	4
Philadelphia, Pa.	0.08	31	0.05	31	0.29	31
Pittsburg, Pa.	0.10	27	0.11	27	0.12	27
Portland, Me.	0.08	12	0.13	13	0.23	13
Portland, Oreg. †						
Rochester, N. Y.	0.06	7	0.08	7	0.20	7
St. Louis, Mo.	0.08	6	0.04	6	0.06	6
St. Paul, Minn. †						
Salt Lake City, Utah	0.02	3	0.04	3	0.11	3
San Diego, Cal.					0.22	21
San Francisco, Cal. †						
Savannah, Ga.	0.17	31	0.30	31	0.65	31
Seattle, Wash. †						
Vicksburg, Miss.	0.12	7	0.15	7	0.24	7
Washington, D. C.	0.05	12	0.09	12	0.22	12
Wilmington, N. C. *						

* Record incomplete.

† Less than 0.05 in one hour.

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